A COMPLETE

# HISTORY OF DRUGS.

Written in FRENCH

Dy Montieur P O M E T Chief Druggist to the late French King LEWIS XIV.

To which is added what is farther observable on the same Subject, from

Med LEMIRY and TOURNERORT.

Divided into Three CLASSES,

VEGETABLE, ANIMAL, and MINERAL;

With their Use in

And feveral other ARTS.

Ellustrated with above Four Hundred Copper-Cuts, curiously done from the Life, and an Explanation of their different Names, Places of Growth, and Countries where they are produced; with the Methods of distinguishing the Genuine and Perfect, from the Adulterated, Sophisticated, and Decayed; together with their Virtues, &c.

A Monk of very great Use and Cucaday.

Done into English from the ORIGINALS.

The FOURTH EDITION, carefully corrected, with large Additions.

LONDON,

Printed for J. and J. Bopwicke, S. Bart, W. Perker, C. Hitch, and E. Wickfield.

# The DEDICATION of the former Editions To Sir HANS SLOANE.

SIR,

THINK myself under many Obligations of offering this Undertaking to you, which I should be much wanting to myself, if I did not acknowledge. The first is, That you have been a very generous Encourager of this Design, not only by recommending the Work, but in assisting the Performance; which is a Favour I beg Leave to thank you for, as well as the kind Present you made me of your Natural History of Jamaica. And though these were Inducements, they were not the real Motives that made me think this Work could come to none so properly as yourself; but it was the Consideration, that you are, without the least Tincture of Flattery, the only Person of the Faculty in these Kingdoms, who of late Years hath made the Materia Medica your Study: So that it is hard to say, whether your Discoveries in the Theory of Medicine, or your judicious Improvements of those Discoveries in the Practice, have exceeded.

It would look vain in me to attempt the Characters of my Authors, to one who is so much better acquainted with them, and whose single Recommendation would be sufficient to make the Publick value their Productions: But I flatter myself you will forgive me if I briefly inform you of the Method used in compiling and translating this Work, wherein I hope you will be of Opinion I have done my Authors no Injustice. For, in the first

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Place, I have taken Monsieur Pomet for my Text, making use of the Liberty of throwing out Repetitions, or whatever elfe was foreign to the Purpose, or better described by others, especially Messieurs Tournefort and Lemery, whom you know well to be more accurate and concise. And in the next Place, I have added feveral Things to Monsieur Pomet, wherein he was erroneous in Description, Dose, or Choice of Drugs, which were much better known in these Countries, and more in Use amongst And, indeed, I have purfued the fame Rule with Monsieur LEMERY, but with more Caution; so that it made this a Work of more Time than I expected when I first engaged in it. And yet perhaps I have not come up to the Taste of some curious Gentlemen, who are more accurate in Botany than I can pretend to; therefore I throw myself entirely upon your Favour, because I am affured you have too much Candour for Industry, and Concern for useful Knowledge, not to pardon small Faults, for the Sake of many Things that may be commendable and instructive, and that otherwise would not be so readily ushered into the World.

And though it is certain, that the Knowledge and Choice of Drugs is one of the most useful and important Parts of Physick, yet it has been the most neglected of any to this Day; and it is not easily apprehended how much the Publick suffers in the Sale which is daily made of I know not what sophisticated and decayed Drugs, which are not capable of producing the Effects that are designed by them, and expected from them, either to restore or preserve the Health of Mankind. We may yet be more surprized at the satal Mischief that slows from Mens Ignorance in the common Choice of Drugs; and that nothing is more frequent in Druggists and Apothecaries Shops than adulterated Medicines, which deserve not least the Tittle of those pompous Names, by which they enhance the Prices of them.

Hence

Hence Sir, you may plainly see our Author's Designs were to expose the ill Practices of those Men who did so much Prejudice to the Profession of Physick, by rendering the Practice precarious, and fetting a greater Value on a decayed Drug, or Composition of the Shops, than on the Life or Health of one of their Fellow-Creatures: Therefore, as one can scarce discover their Works of Darkness without suffering by the Malignity of their Tongues, who so undeservedly make a Gain of People's Credulity, I stand in need not only of an Advocate but a Protector: And fince every one knows that you are univerfally skilled in all the most curious and useful Secrets of Nature, either in the Vegetable, Animal, or Mineral Kingdoms, whatever is here treated of in the following Books, your Travels into those Countries Abroad, where many of them are produced, and your Diligence in furnishing your Mufeum at Home, from all Parts of the World, have made you intimately familiar with; so that no Person but will allow your Approbation a sufficient Sanction to this Work, and Protection to the Compiler thereof, who is, with the utmost Esteem,

SIR,

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Your very Humble

Servant to command, &c.

# P R E F A C E

TO THE

## FORMER EDITIONS.

HE Knowledge of simple Drugs is a Study so agreeable, and so exalted in its own Nature, that it has been the Pursuit of the finest Genius's in all Ages. Several Princes have applied themselves to it with a great deal of Satisfaction to their own Minds, and Improvement to the Publick, and to these we are obliged for the first Essays of Medicine. It is also an indispenfable Knowledge to all who are concerned in Composition, especially Apothecaries; for which Reason they ought to begin with this Study, before they undertake Pharmacy, else they can never prepare any thing with Exactness, which is the occasion of so many gross Errors that attend the Business, to the great Prcjudice of the Patient: They ought to know, as well as the Druggist, from whence every Drug comes, because different Climates encrease or lessen much their Virtues; they ought to distinguish them by their Names, their Figures, their Substance, their Touch or Feeling, their Weight or Lightness, their Colour, their Smell, their Taste; and to take particular Care that those which come from foreign Countries be not counterfeited or adulterated: For the Merchants, through whose Hands they pass, are sometimes too covetous of extravagant Gain, so that they fophisticate and counterfeit so well, that it is a hard matter to discover the Cheat, if we have not been very conversant, or well acquainted with those Drugs before. Druggists themselves are sometimes deceived in buying great Quantities of salte Drugs for good ones, and they then fell them fo again; for which Reason it is very necessary that the Apothecary should be well skilled in the Knowledge of the True from the False, which is gained by a continual Trade in them, and a Fiequency of feeing them. A Druggist ought to apply himself as much as possible to get Drugs at the first hand, and to know the Places of their Growth, and their true Natural History: But most Books that have been written hitherto, have told us nothing but Fables on this head.

The Publick will find themselves much indebted to Monsieur Pomet, for the great Number of curious and useful Remarks they will meet with in this General History of Drugs; which is farther enriched by the Discoveries of a great many Things that were before in the Dark, but since brought to Light, by the Labour and Industry of him, and the more accurate Lemery: But Interest, we see, prevails upon Curiosity, since we meet with very sew Merchants that will employ any

Part

Part of their Time to instruct themselves in these Affairs, which they are not persuaded are any ways necessary to their Business.

Besides, this Work is not only useful to those who profess Physick, and who will put nothing in the Composition of Medicines that they prescribe, except choice Drugs, but likewise it is serviceable to Students in Pharmacy, to Druggists and Apothecaries, who may improve themselves by what they will find in this Work, from whence they may learn to make a right Judgment of what is true or salse in the Use or Trade of Drugs; since People that compose Medicines ought to know, that what they buy will answer the Ends they propose: Besides, there are several Artists and Tradesment who make use of Drugs, to whom it is necessary, and of great Importance to the Publick, that they should not be cheated or imposed on, as Surgeons, Goldsmiths, Painters, Dyers, Farriers, &c.

I am persuaded, that those who read this Work will be satisfied, that they never faw one Treatise of Drugs so complete; for here is not only collected what may be found scattered in a great many Authors, but a great many Things that were unknown before Pomet's General History of Drugs, or at least very few of them were ever taken notice of by any former Author; for he acknowledges to have abundance of Materials given him by Monf. Tournefort, and several others of his Friends, who made it their Business to affish him with all the new Discoveries they could meet with. And though this Work is not swelled into many Volumes, of much larger Size than the two present, yet they contain twice as much as is in *Pomet*, besides the Additions that are necessary to the Text from *Lemery*; and this confidered, together with the Number of Figures, and the neat Performance of them, which are nothing inferior to the Originals, renders this one of the cheapest Books that has appeared of latter Years; which has been contrived for the Good of the Publick, many of the Figures being brought into one Plate, on purpose to prevent the Book from swelling to too large, and too exorbitant a Price, and so destroying the Usefulness of the Design, and the Sale of the Book together.

All the Drugs herein mentioned, have either their proper Latin Names, or the Names given them by the Country from whence they are brought, with their Etymology; where most pertinent, their Description and History taken also from Mr. Lemery's Universal Treatise of Simple Drugs; the judicious Author whereof has endeavoured to inform himself both from ancient and modern Authors, and the Relations of several Travellers, of whatever could be known concerning the Substances and Principles of which each Drug is composed, and its Quality, and as succinctly as possible, to give an Idea of the Thing treated of, that might be satisfactory. Now all Drugs are taken from Animals, Vegetables, and Minerals, their Parts, and what proceeds from thence; as their Hair, Nails, Horns, Milk, Blood, and Excrements. Under Vegetables are comprehended Trees, Shrubs, and other Plants, with what comes from thence; as Roots, Barks, Flowers, Fruits, Seeds, Mushrooms, Mosses, Gums, Rosins, Pitches, Turpentines, and Belfams.

Under Minerals are understood Minerals, Metals, Marcasites, Stones, Earths, and Bitumens.

All Animals, according to the most probable and most received Opinions, come from Eggs, and are there enclosed, as it were in Abridgment, till the Seed of the Male penetrate their Covering, and stretches them sufficiently that they are ready for hatching: There enter into their Veffels a chylous Juice, which being pushed forwards by the Spirits, circulates through the whole Habit of the little Body, nourishes and dilates it by little and little, which makes what we call Growth, This Circulation, repeated feveral times, makes the nutritious Juices fo refined and attenuated, that they take a red Colour, and are converted into what we call Blood. This natural Operation has a great Resemblance to several chymical ones, by which, in attenuating and diffolving the fulphureous or oily Substances, we can make a red Colour, which, notwithstanding, has a great deal of Difference: For example, if we boil in a Matrass one Part of Chyle or Milk, with two Parts of Oil of Tartar, per Deliquium, the white Liquor will become red, because the Salt of Tartar being rarified, dissolves and exalts the unctuous Part of the Milk. and reduces it into a kind of Blood. If we boil together in Water one Part of common Sulphur, and three Parts of Salt of Tartar, the white or yellowish Liquor that was before acquires a red Colour, according to the Quantity of the Sulphur dissolved. If we digest upon the Fire Flower of Sulphur in Spirit of Turpentine, the Liquor gains a red Colour.

The Circulations that are made perpetually in Animals, exalt so much their Substances, and render them so disposed for Motion, that the Principles which arise from thence are almost wholly volatile. But indeed these Principles are not equally volatile in all Animals: For example, Fish afford less volatile Salts than terrestrial Animals: The Scorpion, the Crab, and the Eel, yield less than the Viper; Earthworms and Snails afford less than Scrpents; Ivory less than Hart's-born; and so of the rest.

The different Degrees of Volatility that are in Animal Substances, give them different Virtues one from the other; so those which have very volatile Salts, are usually reckoned cephalick and diaphoretick; as the Viper, Human Scull, Hart's-born Goat's-blead, Elk's-claw; because the Matter being heated in the Viscera, pushes so the their Salts into the Brain, and by the Pores of the Body. Those whose Substances are less volatile have an aperitive Virtue, such as is to be met withal in Hog-lice and Crawfish; because the Salts of these Animals being heavier, are more inclinable to precipitate and open the urinary Passages.

Every Plant arises from its Seed, and is confined in miniature as in an Egg, after the same manner as Animals, the Earth becomes a Matrix to the Seed, it softens it and extends the Bark, opens the Pores, and by a nitrous Fluid it is penetrated and unsheathed from the Husk, so that the Parts of the little Plant are stretched.

firetched, that were before wound or locked up together confusedly, and then this small Plant begins to appear upon the Surface of the Earth, and the nutritious Juice or Sap circulates in the Fibres that do the Office of the Veins, Arteries, and Nerves; they dilate, extend, and grow to a certain determinate Size, limited and appointed by the great Author of Nature.

A Plant draws its principal Nutrition by the Root, because the Pores thereof are better disposed than others, for receiving in the Juice from the Earth. This Juice, in circulating in the Vessels of the Plant, purities itself, is rarified, exalted, and brought to perfection after the same manner as the Chyle and the Blood acquire their Perfection by Circulation. Then the more exalted and spirituous Parts of the Juice, which may be called the animal Spirits of the Plant, are imployed upon the Flowers and Fruits; the less subtle Parts supply Nourithment for the Stalk, the Branches, and the Leaves; the grosser Parts still congeal or coagulate into Gums, Rosins, and Balsams: Those that are the grossest of all, produce an external Bark. Though all the Plants of the Earth receive their Nutrition from one and the same Spring, they, notwithstanding, every one of them, acquire different Qualities, occasioned from the Diversity of Fermentations and other natural Elaborations, that are produced by the Texture or Disposition of their different Fibres. We may distinguish Rosins from Gums, in that Rosins are much fatter, and that they distolve, consequently, much easier in Oil.

The Origin of Minerals is different from those of Vegetables and Animals; this proceeds from the Congelation of acid or saline Waters charged with such Matters as will dissolve in the Earth. Metals are produced from a greater degree of Concoction, a longer Digestion, and closer Union than the Minerals, which are separated or divided from the grosser. Parts in the Ores, after the same manner as Gold and Silver separate themselves from their Metals in the Cupel. All Ores are not in a State or Condition of producing Metals, for it is necessary there should be a Disposition and natural Heat capable of raising extraordinary Fermentations and Elaborations, and high Mountains are usually the properest Places for these Productions, because the Heat therein contained is more regular and exact than elsewhere.

It is not Chance only that conducts us to the Discovery of metallick Mines, but those who apply themselves that Way, observe or take notice of several Circumstances which direct them to the Places where they may be sound: For example, When on a Mountain, or in the Clifts and Breaches of Rocks, they meet with Marchasites, and small heavy Stones of a Mineral Kind, or that they perceive on the Surface of the Earth several Mineral Veins; these are Signs that there is something to be found, that is likely to answer their Expectations, and that they may be assured of Success.

When in certain Streams or Rivulets there is seen a fort of Sand of little Picces of Marchasite of some Mineral, there is a Sign that there is some metallick Mine near the Place; for these metallick Bits are washed off, and conveyed by the Current of the Water that flows usually from the Bottom of some Hill; so that it runs back again towards the Fountain-head, insomuch that if you pursue these small Picces of Marchasite, they will bring you to the Place where the Mine is.

When the Aspect or Figure of a Mountain is rough and wild, the Earth is barren, naked, and without any kind of Plants, or that only some particular Kinds are produced, which are almost withered and dry; these are Signs that there are Mines in this Mountain, because the great Barrenness of the Surface was occasioned by nothing else but the mineral Vapours, which consume the Roots of the Plants; though it does not always happen that mineral Places are barren, there being very many that are covered with great Variety of Herbs. When we see a very clear Water flow from a Mountain that has a mineral Taste, it is a Sign that the Place abounds with some kind of Metal or Mineral; for those fort of Places are usually supplied with a great deal of Water, which give great Disturbance to the Workmen, it being necessary to drain off the Water before you can search for the Metal.

When we are very certain, by feveral Signs or Observations, that any Hill or Mountain contains in it some Mine of Metal, we begin to sink or dig a Pit at the lower Part or Foot of the Hill, in order (as the Miners call it) to carry the Level, whereby the Waters may run off of their own accord, and without the Assistance of Engines; and thereby they may be able to come at the Deep, where the largest and richest Part of the Metal lies. We must take notice, that the metal-lick Matter being as yet stony in the Mine, divides itself into several Veins or Channels, that represent the several Branches of Trees, or the Arms of a River. Metals differ from other Minerals in being more malleable, whereof there are seven; to wit, Gold, Silver, Iron, Tin, Copper, Lead, and Quicksilver; the last is not malleable, but will amalgamate with any of the others, and therefore is by some called a half Metal, though others believe it to be the Seed of all Metals.

The Astrologers and Alchemists join in their Opinions herein, and affirm this as an uncontestable Truth, that there is a great Correspondence between the seven Metals and the seven Planets in their Influences, which flow the one from the other, and serve reciprocally for their Nutrition. And though this Opinion is without any Foundation, it has nevertheless many Followers, notwithstanding their finest Reasonings are but gratis dista; for, excepting the Sun and Moon, there is not the least shadow of Probability, how any of the rest should communicate any Influence to any thing that grows upon this terraqueous Globe, especially subterraneous Bodies, where neither Sun nor Moon seems to have any Dominion.

A great many Physicians and Apothecaries think it sufficient to answer the Ends of their Profession, that they know the most common Drugs in Use, without giving themselves any further Trouble: But nothing is a greater Obstruction to the Progress and Advancement of Medicine than such a lazy Notion, which gives a Check to all Enquiries into the Secrets of Nature, and prevents the Discovery of an infinite Number of excellent Medicines that are unknown to us. We fee that every Age has brought to light fome new Drugs, and we had never known the chief Part of the best Medicines in Use among us at this Day, if the Chemists had not brought them out of the Fire, from such Metals and Minerals as the Ancients believed not only useless in Physick, but pernicious to Health. How should we have met with the Bark, Ipecacuana, &c. which produce such extraordinary Effects, if the Botanists had not carried their Enquiries into the New World? And the Materia Medica had never been so copious as it is now, if those who have made so many valuable Discoveries had contented themselves with such Drugs only as ferved their Predecessors? We likewise see, that such Physicians as practife: Physick with the most Success, are such as have applied themselves most to the Knowledge of Drugs; as we have an eminent Instance in Monf. Fagon, First Physician to the French King; and some of our own Nation, who are, and have been, the greatest Ornaments to the Profession of Physick, as well as the Study of Botany, as Dr. Morison, Dr. Grew, Dr. Sloan, Dr. Woodward, Mr. Petiver. and others: Therefore all those who apply themselves to the Composition of Medicine, ought feriously to enquire into the Knowledge of Drugs, and to penetrate into their fecret Virtues, it being certain there is not one of them that has not in it some specifick Quality for the Cure of Diseases. It is pity there are sew Perfons whose Leisure and Fortune will give them an Opportunity of applying all their Time to this Bufiness; but I am persuaded, that any Physician or Apothecary that would use a little Industry this way, might, in the Course of his Life, discover the particular Virtues of at least some one Drug; and this would, in Time, enrich the Practice of Phylick with a great many more Simple Medicines, that are furer, fafer, and more efficacious than those we use at this Day.

#### THE

# PREFACE of the EDITOR

OF THIS

## FOURTH EDITION:

HE Author of this useful Work appears to have been a Man of great Candour and Openness in the Discovery of every thing he knew regarding his Subject; and, what is perhaps a Merit more than equal to that or any other, in the Author of a Treatise of this kind intended for general Use, a Person of the strictest Probity; to this he had added an uncommon Industry and Application to his Business, as a Druggist, for a long Series of Years, and by being himself daily conversant among the Objects he had to describe to others, he seems to have made himself much better acquainted with the external Appearances and Differences of Drugs, and the various Accidents they are subject to, than any Author who had wrote before him. With these Qualifications, the World could not but expect a valuable Work from him, on a Subject he fo well understood; and his Countrymen, when the Book appeared, declared that he had not fallen short in it, of what they expected from him: Indeed we find him every where talking as if he had the Substances treated of before him; his Descriptions are clear, succinct, and distinctive; his Cautions against Deceits are not calculated from the Figments of a fertile Invention, but given from the Memory of Sophiftications by which himself had, at some time or other, suffered: and his Directions how to know the good from the bad in every Species, are a Leffon that every Druggist, Chemist, and Apothecary, ought to have eternally in Memory.

If the Work has, among us, been accused of some Inaccuracies, it is but Justice to the Author to observe, that it was in many Cases the English Translator, and not he, who was chargeable with them; and if there are some Indunces in which we can perceive Errors in his Accounts of the Drugs, it is owing to the Discoveries made in later Times, of Things not so much as suspected by the best Judges at the Time of his publishing this Work.

In this Edition, the gross Errors of the Translator are amended, and the Author is set in the just Light he deserves, and his Sense rendered clear where it was before mistaken or left obscure: And as the Improvements made in all Parts of natural Knowledge since his Time have been very great, whatever might seem necessary for the farther instructing the young Student in the true Nature and Properties of the Body described, is here added at the End of the Chapter, from the Writings of the French Academicians, of Reaumur and Geoffroy, in their particular Treatises, from our own Dale, and from such others as have given Lights into the Subject unknown to these; and sometimes from Accounts or Observations later than the Works of any of them.

The Reader will not be displeased to find, that what is added of this kind is not spun out into an unnecessary Length, by Observations foreign to the Intent of the Work; the Design not being to enter into the Detail of all the Particulars, in regard to each Subject, as a Matter of Science, or to give Botanical, or other compleat Treatises on the Bodies under Consideration; but to point out the Nature and Properties of each as a Drug; that is, as it becomes the Subject of this History; with just enough of its Characteristicks or Description, for the distinguishing it from other Things of the same kind. Those who want to be surther informed of the general History of the Subject, are referred to the Page or Chapter of some of the Authors of the greatest Credit who have treated more largely of it.

The English Translation having been made from the first Edition of the Original, it has been judged necessary to add here the more material Part of what was afterwards added to it in the succeeding one, published by the Son of the Author; and as there are some sew Drugs in use among us, which by Inadvertency were passed over in silence by this Author, there are added short Accounts of them, by which they may be known when genuine, and by which the Sophistications, not less frequent in the Shops of London than in those of Paris, may be avoided.

JOHN HILL

#### A N

# ACCOUNT

OF THE

# NAMES of AUTHORS

# cited in this Work.

#### A.

ACOSTA, (Christopher) an African Phylician and Surgeon, who made a Treatise of Drugs and Medicines in the Year 1582, which was translated into Latin, then into French, and printed at Lyons in Octavo.

Miversarierum Opus, done by Peter Pena and Matthew Lebel, both Physicians. This Book was printed at London 1570, at Antwerp 1576, and reprinted at London 1605, in Folio.

Agricola (George) of the Rife and Causes of subterraneous Productions. Book the Fifth, of the Nature of those Things which spring from the Earth. Book the Fourth, of the Nature of Fossils. Book the Tenth, of old and new Metals. Book the Second, Bermannus, or a Dialogue of metallick Affairs, being a German Interpretation of metallick Terms.

Aldinus: An exact Description of several scarce Plants, contained in the Farnessan Garden at Rome. Printed there 1625, in Folio.

Aldrevendi, (Ulyssis) Dendrologia, printed at Benenia, in Folio.

Alpinus, see Prosper Alpinus,

Amatus Lusitanus, upon the five Books of Disserides; to which is added the Names of Plants in Several Languages; printed at Strasburgh 1554, in Quarto.

Museofinus Hyacinthus, his Phytologia of the Garden at Bononia, or the first Tome of the first Part of Plants; printed at Bononia 1666, in Folio.

Anguillaria, (Alofius) Third President of the Garden at Padua, his Opinion of several Plants; a finall Work divided into sourteen Parts; with the Works of John Marin-1. in Italian: To which are added two Figures, one of the Ghamælian-Thistle, and the other of the Tree House-leek; printed at Venice 1691, in Ottawe.

Apuleius Platonicus, of the Virtues of Herbs, joined with a Demonstration of the Herbs to every single Sign of the Zodiack, and also of the erratick Stars, or such as are not fixed; printed at Paris 1528, in Folio.

B

Barbarus, (Hermelaus) his five Books of Additions upon Diescerides; printed at Cologn 1530, in Folio.

Bellonius: These Works are translated by Clusius, and placed in the second Volume of Plants, printed at Antwerp. There are, besides, printed at Paris, several Treatises of the same Belon, of coniferous and ever-green Plants, in Quarto. Of the wonderful Excellency of the Works of the Ancients, in Quarto. Of empalming the Dead, in Quarto.

Benzonis, (Hieronymus) his History of the New World, rendered into Latin by Urbanus Calvatones; printed at Geneva 1600, in Ostavo.

Boccones, (Paul) his Figures and Descriptions of choice Plants; printed 1674.

Boctius de Boot of Bruges, Physician to the Emperor Rodolph the Second, his History of Gems and Stones; printed at Leyden.

Bontius, (James) a Physician of Batavia, who writ six Books of the Natural History of the East-Indies, but being prevented by Death lest them unfinished. Afterwards William Pijo reduced them into Order, illustrated and published them together with the Natural History of the West-Indies; printed at Amsterdam 1658, in Faljo.

Botanicum Monspeliense, the Montpellier Botanist; printed at Leyden 1676, in Ollavo.

Breynius, (fames) of Exoticks, &c.

Brunfelsius, (Otho) his Latin History of Simples, with Cuts, in three Volumes; the first published 1530, another in 1531, and a Posthumous Work in 1536; printed at Strasburgh.

C.

Caspar Baubinus's Pinax, or Stere-house of Betanical Rarities; printed at Basil in 1623, and reprinted at the same Place, with some Alterations, in 1671, in Quarto.

Cæsalpinus, (Andreas) Arctinus, Professor in the University of Pisa, his sixteen Books of Plants; printed at Florence 1583.

Camerarius, upon the Epitome of Matthiolus; printed at Frankfort 1586, in Quarte.

Camerarius, on the Medical and Philosophical Garden; published at Frankfort 1588, in Quarto.

• Cardanus, (Hieronymus) of the Variety of Things; seventeen Books, printed at Bafil 1581, in Oslavo.

Castor Durante's New Herbal; printed at Rome 1585, and at Venice 1684, in Folio.

Clusius, (Charles) his Appendix of the History of Plants, or his Description of several Roots as yet unknown; printed at Answerp 1671, in Folio.

· Clusius, of Exotick Plants, ten Books; printed at Antwerp 1605, in Folio.

Clusius's History of scarce Plants; printed at Antwerp 1601, in Folio.

Clusius's History of several rare Plants observed throughout Spain.

Clusius's History of several scarce Roots observed throughout Pannonia, Austria, &c.

Columnæ, (Fabii) Phytobafanes, with Cuts; printed at Naples 1502.

Two Parts of the same Author, of the less known Plants; the first of which contains One hundred sixty-one Figures, printed at Rome 1616; the other, forty-four Figures, printed at the same Place 1616.

Cordus, (Valerius) his Annotations on Dioscorides.

The History of Roots by the same Author, in four Books, with several Cuts from Tragus, and some new ones added by Gesner.

A Sylvia of Observations, which were likewise published together by Gesner at Strasburgh 1561, in Felia.

A Dispensatory of the same Author.

Cornutus, (James) a Parissan Doctor, his History of the Plants of Canada, and others not known before; printed at Paris 1635, in Quarto.

Cornarus, (Janus) who undertook Dioscorides, and added Cuts to every Head; printed at Basil 2557, in Felio.

Cortusus, (James) Authory, a Senator of Padua, and President of the Physick-Garden there, and who published nothing but a Catalogue of the Padua Garden, with the Area or Plans of the same; printed at Venice 1591, in Octavo.

Costeus, (John) concerning the whole Nature of Plants, in two Books, printed 1578, in Quarto.

Annotations of the same Author upon the Museum, with the Works thereof; printed at Venice 1570, in Folio.

Crescentius, (Peter) of Bononia, of the Parts of Agriculture, with the Nature and Usefulness of Plants; printed at Basil 1548, with some Cuts.

D

Dalechamp's Hiltory of Plants in two Volumes; printed at Lyons, in Folio.

De la Duquerie, (John Baptist) his Lexican Medico-Etymologicum.

Disserides of the Materia Medica, five Books in Greek, of which there are various Editions extant in Greek and Latin, with the Interpretation of Marcellus Virgilius, Goupifius Affelanus, Johannes Ruellius, Johannes Conarius, Johannes Antonius Sur accounts, and others.

Six Books of the faid Dioscorides, with Ruellus's Notes, and small Cuts 350; to each Chapter of which is added compendiary Annotations of the second Edition: Also thirty Figures of Roots not before delineated; by James Dalechamp; printed at Lyons 1552, in OBave.

Designatus, (Rembertus) of Mechlin, Imperial Phylician, his History of Roots, in thirty Books; exinted at Autworp 1616, in Folio.

Dedonaus's French History of the same, by Clusius.

The Belgick History, by the same Author.

F.

Furicius Cerdus's Botanelegicum, or Discourse of Betany, by way of Dialogue; printed at Cologn 1534, in Folio.

The Gardett of Exflettensis, described by Basilius Besterus; printed at Norimbergh 1613, in Folio.

Fracastorius's Works; printed at Lyons 1590, in Octave.

Frage/us, (Jebn) Phylician and Surgeon to the King of Spain, his History of Aromaticks, I'rust, and Simples, that are brought from both the Indies into Europe; published by I/rael Spainus, a Phylician of Strafburgh, and printed at the same Place 1610, in Octave.

Fuchfine's Commentaries on the Hostory of Roots; printed at Bafil 1542, in Folio.

G.

Galence, (Claudius) of Pergamus, the most eminent after Hippocrates.

Garzias ab Horto, Physician to the Viceroy of the Indies, his History of Aromaticks and Simples that have their Growth in India, digested into an Alphabetical Order, and round with in the Portugueze Language, by the way of Dialogue, but contracted by Clusius, and rendered into Latin. This Book was translated into French under the Title of The History of Drugs, Spices, and simple Medicines.

Grard, (John) his Hultory of Plants, in English; printed at London 1597, in Folio,

Gerard's History enlarged by Jehnson; printed at London 1636.

Gefner, (Conradus) of the Gardens of Germany.

Liefner, of the Collection of Roots.

Goffee's Catalogue of Plants, in four Languages.

Gefuer, on the Nature of Fossis, Stones, and Genus, with Figures, Gr. printed at Zurick 1565,

Guilan-

Guilandinus, (Melchier) Fourth Prefident or Governor of the Garden at Padua, his Apology against Matthielus; printed at Padua 1558, in Quarte.

Gulielmus Piso, Physician at Amsterdam, his Natural and Medicinal Account of both the Indies; printed at Amsterdam 1658, in Folio.

H

Hariot, (Thomas) his Description of Virginia; Clustus turned it into Latin, and this is the first Part of the West-Indies.

Hermannus. See H. L. B.

Harmander, (Francis) his History of Plants, Animals, &c. of Mexico; first compiled by this Author, and afterwards digested into a Volume by Nardo Antonio Recebo; printed at Rome 1651, in Folio.

Hermelaus Barbarus, his five Books of Commentaries on Hippocrates; printed at Cologn 1530, in Folio; and the same Author's Corrections of Pliny's Natural History; printed at Basil 1534, in Folio.

Hieronymus, or Jerome of Brunswick, his plain German Proof: To which is added, Brunselfius's Herbal; printed at Steasburgh 1531, in Folio.

Hippocrates's Works.

Honorius Bellus Vincentinus, a Physician of Crete, his Epistles of Plants, writ to Clusius; to which is added the History.

Hortus Medicus Edinburgensis, the Physick Garden at Edinburgh, or a Catalogue of Plants there, by Jacob Sutherland of Edinburgh 1683, in Octavo.

Hermannus's Catalogue of Plants of the Garden at Leyden, by Paul Hermannus, Professor of Physick and Botany in that University; printed there 1687.

Hortus Malabaricus Indicus.

Ilortus Regius Blesensis; printed at Paris, 1655.

Hortus Regius Paresiensis, The Royal Garden of Paris, 1655.

I.

Johannes Bauhinus's History of Plants, carried on by Henricus Charleus, Doctor of Basil, and enlarged by Chahraus of Geneva 1650, in Folio.

Imperatus Ferantes, a Neapolitan Apothecary, published a Natural History in twenty-eight Books, with Figures of Stones, Corals, Sponges, &c. and of Plants and Fruits, thirty-three; printed at Naples 1599, and Venice 1672, in Folio.

Ten Parts of the History of the West-Indies, with an Addition to the ninth Part, in Folio.

T'en Parts of the East-Indies, in Folio.

. Johnston's Natural History of Animals, with Copper-cuts; printed at Amsterdam 1657, in Folio.

L

Lacuna, (Andrew) his Commentaries on Diescorides, with Figures; writ in Spanish, and printed at Salamanca 1552, in Folio.

Lemnius, (Levinus) of facred Plants; printed at Lyons 1595, in Oslavo.

Lorius, (Johannes) writ the History of Brafil, first in French, then in Latin; printed at Geneva 1594.

Linscotus, (John Hugh) his Itinerary and Voyage into the East-Indies, belonging to the Portuguese; with the Annotations of Bernardus Paludanus; printed at the Hague 1599, in Felio.

Lobellius, (Matthew) his Figures of Plants and Roots; printed at Antwerp 1581, in a long Form in Quarto.

His Illustrations of Roots, together with the further Care and Diligence of William How an Englishman; printed at London 1655, in Quarto.

Lobellius's Observations and History of Plants and Roots; printed at Antwerp 1576, in Folio.

## Names of Authors

Lonicerus, (Adam) this was the Herbal of Eucharius, writ in High-Dutch, and afterwards published under the Name of Adam Lonicerus, with 833 Cuts, about the Year 1582, at Frankfort.

Ludovicus Ramanus his Voyage into the East: Seven Books, with the Notes of Archangelus Madriguanus and others, who have described the New World.

A General History of Plants of Lyons, by Gulishmus Revillius 1586; it is usually called Dalechamp's History, in French.

M.

\* Malpighius, (Marcellus) his Anatomy of Plants; printed at London; in Folio.

Marcgravius, (George) his eight Books of the Natural Hstiory of Brasil; this Work was printed in Holland with that of Piso, in the Year 1648, in Folio.

Matthiolus his Commenturies on six Books of Dioscorides, &c. printed at Venice 1565.

Matthiolus quoted by Lobellius in the Book intituled Icones Lobellii.

Matthiolus on the Venice Edition 1565.

Montrelius, chief Physician to the Elector of Brandenburgh, his universal Index of Names of all the Plants, in several Languages; with a small one of the scarcest Plants, and some Figures cut in Copper; printed at Berlin 1682, in Felio.

Mesuc's Works, of the Choice of cathartick or purging Medicines, with the Correction and Use of the two Books, whereof the first are the general Canons, and the second treats of Simples; printed at Venice 1623, in Folso.

Monard, (Nicholas) a Physician of Seville, his History of simple Medicines brought from America; writ first in Spanish, then done into Latin by Clusius, and afterwards translated into French by Antony Colin, Apothecary at Lyons: This Work was printed with that of Garzias ab Horto and Acosta, in the Year 1619, in Ostavo.

Morison's Universal History of Plants; the second Part by Robert Morison, Botanick Professor at Oxford, printed there 1680, in Folio.

The Hortus Regius Blosensis, enlarged by Robert Morison; printed at London 1669, in Octavo. Morison's Botanick Preludes.

N.

Norison's New Description, or ranging of umbelliserous Plants; printed at Oxford 1672, in Folio.

Nebemiah Graw's New Anatomy of Plants; printed at London in Folio.

Nicander's Treacle and Alexipharmacks, with the Greek Readings, or Scholia of an uncertain Author; printed at Vonice 1523, in Quarto.

An Edition of the same Author, with the Greek and Latin Readings of Gorræus; printed at Paris

О.

Oviedus Genfalvus Ferdinandus his general History of the West-Indies: This Work has been turned into French by Mr. Duret. In Octavo.

P.

Paludanus Bernardus's Notes on the Indian History of Linscotius, with the Addition of Indexes, &c.

Paul Herman's Prodremus of the Batavian Paradise; printed at Amsterdam in Ottavo.

Parkinson's Terrestrial Paradise, in which is contained a History of all Flowers, Fruit-Trees, &c. that are cultivated in Gardens or Orchards, printed at London 1629, in Folio.

Parkinfen's Theatrum Betanicum; printed at London 1640, in Folio.

Petrus Pena. See Adversariorum Opus.

Palus Renealmus Blesensis his Specimen of the History of Plants, with Copper-cuts; printed at Paris 1611, in Quarte.

Philip Pigafetta's History of the Kingdom of Congo, &c.

Pileterius, (Caspar) of the Plants growing in Zeland, in an Alphabetical Manner; printed at Middleburgh 1610, in Octavo.

Pifo. See Gulielmus Pifo.

• Pliny's History, in which several Things are extant concerning the Culture and Virtue of Plants. This Work was translated into French by Mr. Dupinet, and printed at Lyons 1581, in Folio.

Pitten Tournefort's Elements of Botany, or the Method of knowing Plants; printed at Paris at the King's Charge 1694, in Octavo.

Leonard Plukenett's Phytographia; the first Part printed at London 1691, in Folio.

Father Plumier's Description of American Plants; printed at Paris 1693, in Folio.

Pona (John) Apothecary at Verona, his Catalogue of Simples growing in Montebaldo, with the Deficription of several others, and sixteen Figures, adding Clusius's History of rare Plants. This Work, after several Editions, was translated into Italian by Francis Pona, Doctor of Physick, and the Author's Son; printed at Venice 1617, in Quarto; at Basil 1608, and at Answerp, in Folio.

Prosper Alpinus of Egyptian Plants; printed at Venice 1633, in Quarto.

Prosper Alpinus's two Books of Exotick Plants; printed at Venice 1656, in Quarte.

Johannes Baptista Porta, a Neapolitan, twelve Books; printed at Frankfort 1592, in Quarto: This Author writ several other Works, especially the Physiognomy, or History of several Plants, adorned with Figures, in Octobe.

O.

Quadramius, a Divine, and Botanist to the Duke of Ferrara, writ a Treatise of Treacle and Mithridate; printed at Ferrara 1597, in Quarto.

R

Ray's Catalogue of English Plants, and the Isles adjacent; printed at London 1677, in Octavo. '' Ray's History of Plants; printed at London 1686, in Folio.

Ray's Methodical Synopsis of British Roots, by the same Author, John Ray, Fellow of the Royal Society; printed at London 1690, in Ostavo.

Rauwolfius, (Leonard) his Description of several Plants in his Travels into the East-Indies, and their Cuts; printed 1583, in Quarto.

Renodæus, (John) his five Books of Pharmaceutical Institutions; to which are added three of the Materia Medica; printed at Paris 1608, in Quarto.

Robini Hortus, on the Garden of John Robin, Royal Botanist to Henry IV. of France, with 214 Figures; printed at Paris 1608, in Folio.

Rondeletius of Fish, printed at Lyons 1554.

I

Ruellius's Translation of three Books of Dioscorides into Latin, concerning the Nature of Roots; printed at Brsil 1557, in Folio.

S.

Scaliger, (Julius Cæsar) his Animadversions upon six Books of Theophrassus, of the Causes of Plants; printed at Geneva 1566, in Folio and Ostavo.

Schola Botanica, printed at Amsterdam 1689, in 12°.

Schroder's Pharmacopæia Medico-Chymica, whereof there are several Impressions.

Schwencfeldius's Catalogue of the Roots and Fossils of Silesia; printed at Leipsick 1601, in Quarto. Suvertii Florilegium, in which, besides the many Figures, there are forty-seven Plants from both the Indies not described before; printed at Frankfort 1612, in Folio.

Sykvatici, (Matthæi) Opus Pandectarum; printed at Venice 1499, in Folio.

T.

Tabernamentanus his German History, published in three Parts, with 2087 Figures; printed at Frankfort 1588, in Folio.

The same enlarged with the Description of Plants, Cuts, and several Medicines, by Caspar Banbinus, in the Year 1613, in Folio.

The Figures or Prints of the same, with the bare Names in Latin and High-Dutch; printed at Frankfart 1590.

Thalius, Sylva Hercynia, or a Catalogue of Plants, growing naturally on the Mountains and Parts adjacent to Hercynia; printed at Frankfert 1588. This Catalogue is usually joined to and adorned with the Medicinal Garden of Camerarius.

Theophrastus's History of Plants, the Greek Edition, printed at Venice 1552, in Ottavo; at Basil 1541, in Quarto; and Gaza's Version at Lyons 1552, in Ottavo, with Jordan's Correction.

Theophrastus Eressus's ten Books of the History of Plants, which Bodaus illustrated; printed at Amsterdam 1644, in Folio.

Thever's Cosmography, in French, published with several Rigures of Plants and Animals. The same Author has writ in French, a History of what is singularly remarkable in New France in America; whereunto are added twelve Figures of Plants; printed at Paris 1557, in Quarto.

Tragus his History, which was often published at Strasburgh in the German Language, in Felio, but now is translated into Latin, with 567 Cuts, though they are described to 800; printed at Strasburgh 1522, in Quarte.

Turner, (William) his History of Plants, in English, with some Pigures; printed at London in Folia.

V.

Vestingius's Observations upon Prosper Alpinus, concerning Egyptian Plants; printed at Padua 1638, in Quarto.

Virgilius Marcellus's Interpretation of Dioscorides, with Commentaries of the same; printed at Cologn 1529, in Folio.

Z.

Giacomo Zanoni's Herbal, taken from the publick Physick-Garden at Bologna; printed there 1675, in Folio.

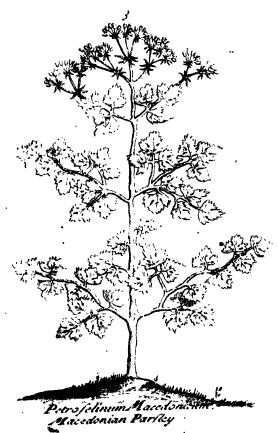


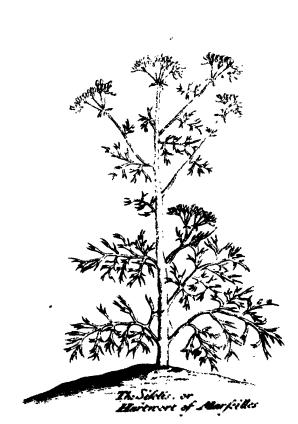


J.F



The Wormseed Plant



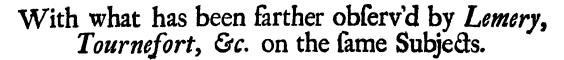


# P O M E T's

# GENERAL HISTOR

O F

# DRUGS



## BOOK I

CHAP. I.

# Of S E E D S.

1. Of Wormseed.

Pomet.

ORMSEED has its Name from its principal Virtue, which is to deftroy all Kinds of Worms generated in human Bodies: particularly those in In-

rated in human Bodies; particularly those in Infants or young Children. It is likewise call'd Santoline, or Xantoline, Semen Santsum, the Holy Seed, Semen Santonicum, Semencine and Barbotine. It is a small Seed, which the Persians trade in by their Caravans from Aleppe, Alexandria and Smyrna, and which is afterwards transported to England, Holland and France.

The Plant which bears the Wormfeed, has such small Leaves, that it is difficult to separate them from the Seed; for this Reason, those of the Kingdom ot Boutan winnow it in proper Baskets, to separate the Leaves, which sty off, in a Kind of Powder. Some Authors affirm this Wormseed to be the Seed of a Sort of Wormwood which is call'd Santonique, because in grows in Xaintonge: But this is not worth disputing about, since what is generally sold we know grows in Persa, and

on the Borders of *Muscovy*, as Letters which I have received upon several Occasions affure me, and as you may be satisfy'd from Mr. *Tavernier*, in the Second Volume of his Travels, *Page* 384, in these Words:

As to what regards the Semæncine, or Wormfeed, it is not to be gather'd like other Seeds. The Herb which bears it is common enough, but must be suffer'd to stand 'till it is ripe; and the Misfortune is, that when it approaches to its Maturity the Wind shakes off a great Part of the Seed, which falls among the Weeds and is lost; and this it is which makes it dear. They never dare touch it with their Hands for fear of spoiling it, and when they are to show it they take it in a Bason. When they gather what remains upon the Plant, this is the Management by which they do it; they take with them two Hand-Baskets, and walking into the Places where it grows, they move one of the Baskets from Right to Left, and the other from Left to Right, as if they were mowing the Herb, ways laying hold of it by its Top, which is the Part were the Seed grows: The Seed thus falls into the Balkets.

B

There is Wormfeed also growing in the Province of Kerman; but it is not so good as that of Boutan, and scarce any more is gather'd there than what is used upon the Spot.

This Seed is not only good against Worms in hildren, but the Northern Nations use it like

You ought to chuse that which is well-fed or plump, of a greenish Cast and well-tasted, and take care that it be very clean, and have nothing flicking and clinging to the Seed; for that will increase the Price considerably. You must take cate it be not too green, and that Southernwoodfind be not imposed on you for this, tho' they are easily to be distinguish'd; for the Wormseed is moderately large, long and greenith, and the Seed of Sandarewood is light and vellowith, more refembling a Chaff cut very finall than a Seed; add to this, that the Wormfeed is bitterer and more aromatick.

The Wormfeed is so well known and commonly used, that we need not speak of its Virtues: Its Bitterness is the Reason that it is generally cover'd with Sugar; and this Way makes what we call Wormfood Sugar-Plumbe.

When it is taken otherwise it should be beat to Powder and taken in any convenient Liquor, or made into a Bolus from half a Scruple to a

Dram, for a Dose.

Chuse your Wormseed always as new and fresh as you can, clean and round, of the strongest Taske and most fragrant Smell: It contains a great deal of Oil, with vo-latile and essential Salt in it: It is very proper for the Destruction of Worms, excites the Courses of Women, suppresses Vapours, strengthens the Stomach, causes a good Digestion, and adds a lively Colour and Complexion to the Face. The Dole, from half a Scruple to a Dram, in Powder, to be taken in the Morning failing, or in an Infasion in Wine, or made into Confects, to be eat with roafted Apples Evening and Morning. The chymical Oil is excellent to anoint the Stomach or Belly with for the same Purposes. A compound Powder may be made thus: Take Formfeed two Drams; Powder of Coraline one Ounce; Æthieps Mineral half an Ounce: Mix them: Dose, from half a Dram to a Dram, fast-

This is the Seed of a foreign Species of Worm-Plant. The Absinthium Santonicum Alexandrinum froe Semptina & Semen Santium. Park. Absintbium Santonicum Judaicum. R. Hift. 1. 368. Hift. Ox. 3. 8. It is a Plant of about two Feet high, the Stalk is hard and woody, the Leaves are large and finely divided, of a greyith

or ash Colour mather than green; the Stalk divides into many Branches towards the Top, which are thick fet with small Leaves and numerous Clusters of Seeds; these upper Leaves are those small ones which, as Panet observes, it is hard to separate from the Seeds.

[The Seed is small, light and chaffy, composed of a Number of thin brittle Membranes, fet on a short Pedicle, and easily falling into Powder, on

being rubb'd between the Fingers.]

# 2. Of the Chouan in French, or Carmine-

THIS is a little light Seed, of a yellowish green Colour, the Taste Pomet. fomething biting; and much refembling the Wormfeed, except that it is much larger and lighter.

This Plant grows low, and carries its Seed in little Bunches or Clusters on its Top, in a Man-

ner little different from the Wormfeed.

I have found it impossible to know positively the Place of Growth of the Plant which bears the Chouan; all that I have been able to learn of it has been from some Persons of the Retinue of M. de Guillerague, who went Embassador from the King of France into Turky, who at their Return brought a considerable Quantity of it to Paris with them.

If you would know how to chuse the best Seed, you must take that which is greenish, the largest, and best clean'd or dress'd, and least fill'd with Specks, like Holes in rotten Wood.

It is of no other Use, that I know of, in France, but to make Carmine, and for the Feather-Men who dye with it, but at present mind it very

Sittle.

This Author agrees with the former in the Description and Use of this Exo- Lemery. tick; which he fays is like Wormseed, but in Taste a little pungent; it grows upon a Shrub-Plant, plumb'd on the Tops like a Nofegay; it is brought from the Levant, and used for Carmine.

[This is the Santonicum viride, Offic. Dale's Pharm. 100, the green Wormseed of the Shope; it is supposed to have the same Virtues with the former; but is so seldom imported that the Name of it is almost lost. It is probably the Seed of fome foreign Wermweed; but no Author has yet ascertain'd the particular Species.]

#### 2. Of Macedonian-Parsley.

Macedonian-Parfley is a Plant which resembles, in some measure, our Pomet. Garden Parsley; but the Seed is a great deal lefs, much longer and fharper pointed; it grows in Clufters like Famel-Seed. This Plant receives its Name from the Kingdom of Macedon, where it grows naturally, and from whence the Seed is transported, which is almost the only Part of it that is used in Physick.

Make choice of the newest Seed, and such as is clean, well fed, longish, and of a brownish green Colour; let it be well-tafted and aromatick. which are the chief Distinctions of the Goodness of Macedonian-Parfley: There are some who very improperly use our common Parsicy-Seed, and others again a Sort of black Seed from the large Smallage, which the Gardeners falfly call Macedonian-Parsley. Andromachus, Physician to Ners, General of the Roman Legions, in the Time of the War betwixt the Romans and Honnibal, invented a Treacle, which we now call Venice-Treacle, in which he put this Seed, by the Name of Macedonian-Parfley, as it is a powerful Alexipharmack, or Relifter of Poison or Pestilence.

It may be taken early in the Morning, half a Dram in a Glass of Wine, or other Liquor proper to the Difease.

Says it is the fame Species of Parfley Lemery. with ours; but the Leaves are much larger, and a little more indented; the Seed abundantly smaller, longer, sharper pointed, and more aromatick. This Plant grows in Macedon, from whence the dried Seed is brought hither.

The Choice of it ought to be the same as before directed. It contains a great deal of exalted Oil and volatile Salt; it is aperitive, excites to Urine, provokes the Monthly Courses, resists Poison, and expels Wind; it is Lithontriptick, or a powerful Breaker of the Stone in the Kydnies; and apply'd in the Form of a Cataplasm, eases Pain, and abates the Raging of the Gout, especially from a cold Cause. This Seed may be used either in Powder, Decoction, Tincture, chymical or express'd Oil, and in the distill'd Water it is opening, cleaning, diuretick and sudorifick, and therefore is used in the Composition of the great Treacle of Andremachus.

[This is the Seed of a Species of Parsley call'd Petrofelinum Macedonicum verum. Ger. 864. Apium Macedonicum. H. Ox. 3. 394. It is a Plant of about two Feet high, with Leaves like those of the common Parsley, only that they are a little hairy and more notch'd on the Edges. The Stalk is divided into many Branches at the Top and beset with Clusters of white Flowers, which are follow'd by the Seeds before describ'd. It is a common Plant in many warm Countries; but will not bear the Cold of our Climate.]

#### 4. Of Scfeli of Marfeilles.

THIS Sefeli takes its Denomination from Marfeiller, which is its Pontet. native Climate, though it flourishes more in feveral other Parts of Provence and Lawguedoc. It is a Plant which passes for a Kind of Fennel, and is by many Authors call'd Famiculum tertuosum, or Crooked Fennel; but it has sewer Leaves than the common Fennel, and those not so long, nor is the Stalk so strait or high, but more naked, and the Branches less regular, spreading themselves wider on the Sides near the Bottom. We use the Seed, which grows by Chasters on the Tops, after the same Manner as Dill. When it comes to Maturity it looks very much like the wild Fennel.

This Seed ought to be of a moderate Size, longish, heavy, well clean'd and of a greenish Colour.

There are several other Sorts of Sefeli; as that of Candy, Pelopomessus, or the Morea, Ethiophia, See, but as it is only the Seed of the Sefeli of Marfeilles that is in use, I shall not mention the others, but refer you to the Authors that treat of them. Some assign the same Virtues to this Sefeli of Marfeilles as was given to the Parsley of Macedon; and some Botanists call it the Siler Mantanum, or Sefeli of the Mountains.

The Carriers who bring from French Comté the Berne and Valteline Cheefes, and Sweetmeat Boxes, fornetimes bring us also, in little Bales, a Seed which they call Sefeli, larger and of a stronger Smell than that of Marfeilles, which they give their Cattle that bring their Goods to fatten them, that they may sell the better at Paris.

The Latin Authors call it by these Names, Seseli Massiliense, or Seseli of Lemery. Massilia; Seseli Massiliense Fæniculi folio Dioscoridis censetur, Fæniculum tortuosum, according to Baubin and Fournesset; Seseli Massiliense folio Fæniculi crassione, Ad Lobel, or the Massiliæ Seseli with the thicker Fennel Leaf; Fæniculum Petræum, or Rock-Fennel.

After he has given the same Description of it as Pomet, he says, it grows in sandy Places in the hot Countries, as in Languedoc, Provence, and about Marfeitler: The Seed is used in Physick, and brought to us dry; it ought to be chose moderately large, fresh, and of a grateful Smell; then it affords a great deal of essential Oil and volatile Salt, is hot and dry, incides, opens, discusses; it is cephalick, neurogick, pectoral and nephritick; good against Epilepsies, Apoplexies, Megrims, Vertigo's, Lethargies, Cramps, Palfies, Convulsions, Coughs, Colds, Catarrhs, Obstructions of the Lungs, Wheelings, Shortness

3 2 **Q**f

of Breath, Droplies, Cholick, Crudities in the formach, Wind, Obstruction of the Teams, Fam and Stoppages in the Reins and Bladder; and many be taken in Poster from a Dram or two, or infus'd in Wine, Carrielled in Wine, Ale or Water; likewife Findure may be drawn from it in Spirit of Wine Sefali Massiliense. R. Hist. I. 4.14. Internation Massilienses. R. Hist. I. 4.14. Internation Massilienses Ferula folio. Hist. Or 2 to 12 to 2 Plant of three or four line high, the Leaves are like Famel, but shorter and of a paler Green; the Flowers

but shorter and of a paler Green; the Flowers grow in Chilters on the Tops of the Branches, and are white. The Stat is faid to be a Specifick against the Postower Hemlock.

#### s. Of Assecos, Blinds Weed, or the Ethiopian-Cummin.

HE French call this L' Ammi, and D'Ameat. It is a Plant which has Leaves infall and indented, and bears a Stem pretty high, with many Branches, which terminate in Taffels adored with white Flowers, after which comes a little roundish Seed, small, and very much refembling Grains of Sand, from whence the Plant takes its Name.

The Seed is the only Part of the Plant that is in Use; it ought to be chose fresh or new. greenish, well-fed, of a little bitterish Taste and aromatick Smell: That which comes from Alexandria or Crete ought to be esteem'd before that which is cultivated in feveral Gardens in France. which has not that Taste between Origanum and Thyme, so easily observ'd in that of Alexandria and Crete, which is much the better for all Uses. It is incitive and aperitive. The Dose is from half a Dram to a Dram.

It is call'd Semen Ammeos, or Ammi Lemery. ab Arena; the Name being given to this Plant because the Seed is very like to Grains of Sand: It affords a great deal of effential Oil and volatile Salt, and is attenuating, cutting, aperitive, hyfterick, carminative, cephalick, refilts Poison, and is one of the four lesser hot Seeds; it expels Wind, is good against the Cholick and Pains of the Womb, and provokes the Messes; it is used in Powder from half a Dram to a Dram, in a Decostion with Wine or Water, or in a Tincture extracted with Spirit of Wine, from a Dram to two Drams.. '

These are the Seeds of the Ammi Odore Origani. Hift. Ox. 3. 295. Anni creticum. Ger. 881. They are brought from Egypt, by the Way of Meanway, and thence into the other Parts of Europe. The Plant is

about two Feet high, the Stalks are slender, branched and striated, the lower Leaves broad and jagged, but the upper much more finely divided; the Flowers stand in Umbels, and are very small and white.]

#### 6. Of Thlaspi, Treacle Mustard.

THIS Plant is about a Foot high, and has Leaves formething of a deep green Colour; the Stem is charg'd with a great many Branches, bearing white Flowers, after which grow flat Pods, resembling Lentils. The Seeds are of a yellow Colour, tending to red, which in course of Time change to a dark red, and the older they are, the darker they grow. This Seed is oblong, and a little picked at the Ends.

You ought to chuse that Seed which is clean and fresh, of the reddish Cast, sharp and biting; and to know that it grows in the hot Countries, fuch as Languedoc and Provence. No Body should go to buy this at the Seed Shops, any more than any other foreign Seed, because they frequently fell the Seeds of the common Garden Cress for thole of the Thaifpi, at fuch Places, to thole who do not understand the Difference. But there is another Sort of Treacle-Mustard, whose Stem. Leaves and Pods are much less, as well as the Sced: This is altogether yellow and fmaller, comes up very near to it in Taste, but is abundantly short of it in Virtue, for which Reason it ought to be rejected. I shall pass by the other Sorts of the Thlaspi which are out of Use.

This is particularly recommended for the Cure of the Sciatica, Dissolving of the Stone, and Grumous Blood; given in Powder from half a Scruple to two Scruples, in the Morning fasting.

The Root is pretty large and fibrous, woody, white, and a little acrid, or Lemery. biting. This Plant grows in uncultivated, wild, stony or sandy Places, much expos'd to the Sun; likewise among Corn, on the Tops of Houses, and against the Walls; it affords a great deal of volatile Salt, and effential Oil. We bring the dried Seed from Languedoc and Provence. where it grows better than in the more temperate Climates.

We chale the fairest Seed, which is most biting and piquant to the Tafte, like Mustard. It is used in the Composition of several Medicines, and is incifive, attenuating, deterfive, aperitive, proper to provoke Urine, and the Terms, to hasten the Birth, and bring away the After-birth, and is very lerviceable to break inward Apostems.

[These are the Seeds of the Thiaspi Diescoridis. Ger. 204. Thlaspi Arvensis siliquis latis, Hust.

Pag. 4.

The Amea, or Ethiopian Cummin







The Daucw, or wild Carrot of Candia

Ox. 2. 203. It is a Plant of about eight Inches high, the Flowers are white and compos'd of four Leaves each; the Leaves are broad and oblong, the Seed Vessels are broad and flat, the Seeds small and dark-colour'd. It grows wild in England, but is not very common. The Seed is little us'd except as an Ingredient in the Venice Treacle.]

# 7. Of Daucus, or Wild-Carrot of Crete or Candia.

Pomet. THIS Daucus is a Plant very like a Carrot; it is a Foot and a half high, and bears on its Top feveral Bunches or Clusters of white Flowers; the Sceds are of a pale green, hairy and whitish, something like Cummin-Seed, tho' not altogether so long or big, nor of so strong a Smell; but on the contrary, their Smell and Taste are both agreeable and aromatick, especially when one has held them some Time in ones Mouth.

This Seed being downy, frequently has little Animalcules and a Dust Hanging about it; this Fault encreases as the Seeds grow old, by the Particles of Matter that separate from those little Creatures; it ought to be chosen new, well fed, and the cleanest that can be found. Sometimes it is brought from Germany and the Alps; but this is not so good or useful as that which comes from Grete, which is only to be chose.

It is fingular for the Stone, and those who are subject to Wind-Cholicks: It is ranged amongst those Medicines which are call'd Lithontripticks, and passes for a powerful Carminative, given in Realist-Water, to a Scruple, or in White-Wine, against the Stone or Gravel, early in the Morning; it may be likewise administer'd in Wind-Chelicis at Bed-time in Annifeed, Fennel, or Ruc-Water, and some add to it a Scruple of Salt of Worm-wood.

The Leaves of this Plant are fome-Lemery. thing like those of Fennel, the Root long, of the Thickness of a Finger, furnish'd with Fibres, and tasting like a Parsnip: It grows in stony and mountainous Places; the Seed is brought over dry from Candia, and other hot Countries; that which is new, clean, well-tasted, and odoriserous, is the best; it affords a great deal of Oil and volatile Salt.

Both the common Wild-Carrot and that of Crete, have one and the fame Virtues; but that of Grete is much the strongest. They expel Wind, and are good against Pains of the Womb and Bowels, vehement Cholicks, Vapours and Hysterick Fits; as also against old Coughs, Cold,

Wheezings, Afthma's, Disury, and all Sorts of Obstructions of Urine, as Sand, Gravel, Stone, and tartarous Mucilage in the Reins, Ureters, and Bladder; they are us'd in Powder, from a Scruple to a Dram, or more, in Decoctions, in Tinctures with the Spirits. Dose from a Dram to three or four. An oily Tincture is made from them with Oil of Turpentine, against Cramps, Convulsions, Palsies, Pains and Aches from Cold.

[This is the Seed of a Myrrhis, call'd Daucus Creticus by the old Authors, and by the later, Myrrhis Annua Semine striato villoso incano. Tourn. I Inst. 315. Myrrhis tenuifolia annua cretica Semine albo pubescente. Hist. Ox. 3. 302. The Leaves of this Plant are finely divided, and hairy, the Stalks stender, a Foot high; the Flowers white, standing in Umbells. The Seed is accounted a good Alexipharmic, and is an Ingredient in the Venice Treacle and Mithridate.]

#### 8. Of Carui, or Caraways:

Carui, which the Latins call Carum, and the Greeks, Garon, is a Plant Pomet. that approaches near to the Wild-Parfnip; the Leaves are large, indented and divided into many small Parts, among which are several Stalks about a Foot high, on the Tops of which grow Bunches, cover'd at first with white Flowers, which are afterwards turn'd into Seed, much like that of Garden-Parsley, but that this is of a darker Colour, slatter, and of a more biting and piquant Taste.

This Plant grows in most Gardens, but as the hot Countries are most agreeable and productive of Aromatick Plants, the *Caraways* that the People of *Paris* buy out of the Shops, are those

brought from Provence and Languedoc.

We ought to chuse this Seed well fed, fresh, greenish, of a warm acrid Taste, and aromatick Smell, and such as has an agreeable Flavour when held in the Mouth. It is esteem'd proper to make the Breath sweet, and very good to promote Digestion, to allay or expel Wind, to strengthen the Stomach, and provoke Urine. The Germans have such a Regard sor it, that they put it whole into their Pye-Crust, mix it in their Bread, and in a great Measure in all their Sauces. Several Persons use the Leaves as a Pot Herb.

The Root is long, sleshy, pretty Lemery. thick, white, sometimes yellowish, but rarely, and of a Parsnip Taste. This Plant grows in the fattest Land in the Gardens, but prospers much the best in warm Soils; therefore contains in it a good deal of volatile Salt and Oil: It is incisive, aperitive, carminative, moderately

binding,

binding, comforts the Stomach, helps Digestion, stops Vemiting, and operates much like Annifeed. Caraways are good against all cold Disaffections of Stomach. Rowels or Head, Falling-fickness, and the moderate the Lyg-sight. They are used in Caraways binds White fig. in Towder to proved Uring, and in the Lyg-sight. They are used in Caraways binds White fig. in Towder to proved Uring, and in the Lyg-sight. They are very ferulated a bring which they are very ferulated to bring the States which they are very ferulated to bring the both Birth and After-Birth. Dose from 12 to 16 Drops of the Chymical Other Chymical C

This is the Seed of the Gardin Sulgare. Park. 910. Cuminum Pratense, Carvi afficinarum. C. B. P. 158. a Plant of about two Feet high, the Root is large and whits, the Stalks Assated and jointed, the Flowers of Umbells white and five leav'd. It is comment in Garmany; and I have seen it in some Meadows in England. The Seed is an Ingredient in many of our Compositions. It may be taken in Substance from half a Dram to a Dram in any Light, or in the Distill'd Oil from three Drops to the.

The state of the state of

Pomet.

Sheifrage is a Plant so like Thyme, that it is difficult to distinguish them.

This grows plentifully in Dauphine, Provence, and Languedoc, among Stones and upon Rocks, which has occasion'd the Name of Saxifrage to be given to it, as also to many other Plants that grow in the like Places, as it signifies Break-Stone.

You must chase the newest Seed you can get, which is of a warm piquant Taste and an agreeable Smell; the Virtue of breaking the Stone is attributed to it, given in Powder in a Morning early, in a Glass of the distill'd Water from the Plant, or any other Diurcick Water. Dose half a Dram.

There are a great many other Kinds of Saxifrage, which several Authors take Notice of; but as this Seed is that which is commonly in Use among us, and which is generally fold in the Shops, I shall speak no further concerning the rest, which are treated of in many other Books, and particularly by Distincts and Distribution, who have written of them at large. Some will need have it that all Plants which grow among Stones and Rocks are to be palled Sanfrages.

Lenery. a Plant whose Leaves are almost round, indented on the Sides, being formething like Greens by Leaves altitle thicket and whiter, and on the hinder Part a little longer and matter. The Stalks are about a Foot high, bearing on

their Tops little Flowers of five Leaves, disposed like a Rose, of a white Colour. When the Flower is off, it produces a Fruit almost round, which contains in two Protitions a very small Sort of Seed. The Root has thundance of Fibres, the Tops are surrounded with sittle Tubercles, about the Size of Corinder-Seed, or something bigger, of a Colour partly red and purple, and partly white, with a bittering Taste; these Tubercles are commonly called Santifrage-Seed. This Plant grows in Places where Herbs are not propagated, as upon the Mountains, and it the Valleys; it flourshes in the Month of May, and is a little viscous. The Leaves are larger, and the Stalks grow higher in some Places than others, but they are generally small, allowing a good deal of effential Oil and Salt.

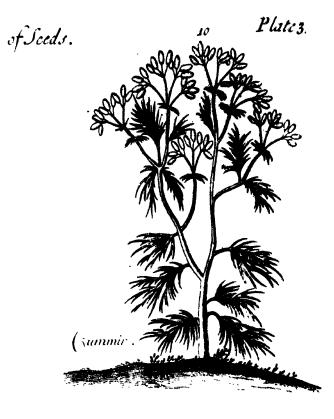
It is very aperitive, proper in Stone and Gravel, and to open Obstructions, to provoke Unine and Women's Courses, cut the tartarous Mucilage, and expel it; and is chiesly us'd in Powder, from half a Dram to two Drams, or in an Insuson with White or Rhenish Wines

[The Difference between the Descriptions given by these two Authors, might create Consulion; but it is to be observed, that they mean two separate Plants, both of which are called Saxifraga, and both have been used in Physick: The Plant described by Pomet is the Saxifraga Antiquorum. Off. Dale. 231. Saxifraga magna Mathioli. Ger. Em. 605. That by Lemery, the Saxifraga Alba vulgaris. Park. 424. Saxifraga Rotundiselia alba. C. B. Pin. 309. and as this is ordered to be used in the College Catalogue, I have taken away the Figure before given by Pomet, and given one of this Plant.]

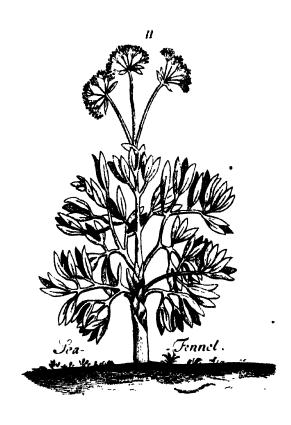
### 10. Of Cummin.

Mmmin is the Seed of a Plant which is like Fennel, and grows plentifully Pomet, in the Isle of Malta, where they sow it as they do Corn here. In the Choice of it take that which is new, well fed, greenish, of a strong disagreeable Smell. Observe that it be not full of Holes or Worm-eaten, which it is very subject to be, which may be easily discover'd by the Eye, and by its being full of Dust; and more certainly by the taking up a handful of it from the rest; for the Seeds will be seen to be fasten'd together, and hang one from mother by little Filuments, which are the Ribres of the Seed. Some use this Seed for Dropsical Tympanies, because it is carminative: There is a great deal us o to. refresh and invigorate Horses. Oxer, and other domestick Cards. They make at the state of Expression, as of Annifeed, which is very good for









the Rheumatism, tho' it yields but little in Quan-

tity.

Many Persons make use of Cummin-Seed to replenish their Dove-Houses, because Pigeons are very dainty in their Feed, tho' it is not us'd just as we sell it in the Shops; but incorporated with a little Sakt and Earth, such as the Pigeons are apt to pick up in the Fields, or else Loam, moisten'd with Urine, or the Brine of pickled Cod-Fish, or other like Matters, insomuch that in some Places People are forbid to sell it.

Cummin, Cuminum, or Cyminum, is a Lemery. Sort of Caraway, which bears a Stem about a Foot high, divided into feveral Branches; the Leaves are cut small, like those of Fennel, but a great deal less, rang'd by Pairs lengthways on the Sides. The Flowers grow in Umb dlo's on the Tops of the thick Branches, of a white Colour; after them come the Seed, jun'd by two and two, oblong and surrow'd as the Firmel but less, and pointed or sharp at both less.

The Root is small and longish, and perishes when the Soud is gone: They call this Seed in Mill. . is propagated, Annis-Acre, or iharp Annifier or tharp Cumminfeed to diffuge their from the face Annifeed that is cultivated inere, and call'd by the Name of Sweet Annife, or Sweet Cummin by the Maltois; which Circumstance makes several Botanists equivocate, who believe this to be the same Sort of Cummin with the fweet beed. This contains a great deal of volatile Salt, and elentral Oil: It is digestive, dissolving, attenuating, carminative, expels Wind, cures the Cholick, cases Pain. is profitable against Diseases of the Nerves: The Chymical Oil is good against all Obstructions of Unine, Stone, Gravel, &c.

[This is the Seed of the Cuminum femine longiore. C. B. P. 146. Cuminum fativam Diofeoridis. Ger. 907. It is one of the four greater hot Seeds: It gives Name to the Emplastrum ae Cymino, and is a good Ingredient in many other

Compositions.],

### 11. Of Fennel.

THIS is the Seed of a Plant which is known throughout the whole Pomet. World, and therefore needs no Description: I shall content myself to say, that the Fennel which we now sell, is brought from Languedoc about Nismes, where that Plant is cultivated with great Care, by reason of the great Quantity of the Seed which is carried into France, and chiefly to Paris.

Make Choice of the newest Seed, longish, of

a green Cast, sweet Taste, luscious and agreeable, and which is freest from Mixture.

This is of Use in Physick, to expel Wind, for which it may be us'd instead of Annifeed; but it is much more us'd by the Confectioners, who cover the Seeds with Sugar, and diffinguish them afterwards by Numbers according to the Quantity of Sugar they have on them. They take the Clusters of the green Fennel, which when cover'd with Sugar, they fell to make the Breath sweet, for the Green is reckon'd to be of the greatest Virtue. The Apothecaries make a distill'd Water from the green Found fresh gather'd, which is esteem'd excellent for taking away Inflammations of the Eyes; and they make after the same Manner a white Oil of a strong aromatick Smell; but it yields so small a Quantity, that it is not worth the Trouble to make it. The Dryness of Fennel Seed makes it so, that it is very troublefome to make a green Oil by Expression, as is done of Annifeed. There are some who lay this Seed among their Olives, to give the Oil that comes from thence a fine Tafte.

There is yet another Sort of Fennel which is wild, and which grows every where in the Fields, and upon Walls, without any Sowing; but the Sced of this is almost round, less, flatter, more acrid in Taste, and not so green as that we have been speaking of; it is scarce of any Use by reason of its sharp pungent Taste, and because the other Fennel is very common, especially since it has been cultivated in Languedoc; but at such Times as we had no other Fennel but that of i.aly, which is call'd the Florence Fennel, the Will Fennel was a little in Use.

There is another Kind of Fennel, which bears the Name of Sea-Fennel, which the Latins call Crithmum, or Creta Marina, which we pickle in Vinegar to fell in Winter with Girkins or little Cucumbers, which are preserv'd after the same Wav.

Fæniculum or Fennel, is a Plant of Lemery. which there are various Sorts; I shall only mention two which are used in Physick. The first is call'd Fæniculum vulgare minus acriore & nigriore semine; or common lesser Fennel, with the sharp black Seed. It shoots forth a Stalk of five or fix Feet high, hollow, of a brownish green Colour, fill'd with a spungy Pith. The Leaves are cut as it were into long Threads of a dark green, and agreeable Smell, a fweet and aromatick Taste. On the Tops are large Clusters or Bunches, yellow and fragrant. The Flower is compos'd of five Leaves, in the Extremity terminating like the Cup of the Rose. After the Flower is gone, the Cup bears in it two oblong Seeds, swallow-tail'd, hollow on the Back, flat

on the other Side, blackifa, and of a sharp Taffe. The Root is as thick as a Finger or Thumb, long, fifthit, white, edoriferous, and of a sweet

aromatick Relin.
The feeting Bind is call & Famiculum dulce, majore & also feeting; firstet Femal, with the larger white Seed. It differs from the former, in that the Stalk is usually much less, the Leaves not so big, and the Seed thicker, white, fweet, and less acrid. They cultivate both Sorts in dry fandy This of the latter kind, which is call'd Sevent Fennel, is more us'd in Physick, and is where it is husbanded with great Care: It is the same Sort as that which is formetimes brought from *Italy*, which is call'd *Florence Fennel*. Your Choice of it ought to be the fame as before directed. It yields largely efential Oil and volatile Salt; the Leaves, Branches and Root afford much Flegm, Oil, and fix'd Salt. The Leaves are mood for Diseases of the Eyes, which they cleanse and strengthen; they clear the Sight, encrease Milk in Nurses, sweeten the Acrimony in the Guts, and fortify the Stomach. The Root is aperitive, and used to purify the Blood, as one of the five opening Roots. Seed is carminative, proper to expel Wind, to affift Digeftion, ease old Coughs, open Obstructions of the Lungs, and cause free-breathing.

[It is to be observ'd that Pomet here speaks of the Sweet Fennel, not the common Kind, as might be thought from the Beginning of the Chapter; but his Description of the Seed, as well as its Place of Growth and Uses, make it plain afterwards, that it is the Sweet Femel-Seed he is speaking of. The common Famel-Seed is the Seed of that so frequent in our Gardens; the Sweet is that of the Famickium Dulce of Gerard, &c. And the wild Kind, mention'd by Pomet, is the Fembulum filestire parame Ferula Folio braviari. Tour, I inft. 311. The Root of the common Famel is one of the five opening Roots, and its Seed one of the greater Carminative Seeds.]

### 12. Of Annifeed.

Nuiseed comes from a Mant that we known well as Fennel, as there is hardly a Garden without it; Pomet. but that which is fold in the Shops, comes from Several different Places, as Malta, Alicant, &c. because it is abundantly sweeter, larger, and of a more fragrant and aromatick Taffe and Smell, and less green than that which is produced in Prance.

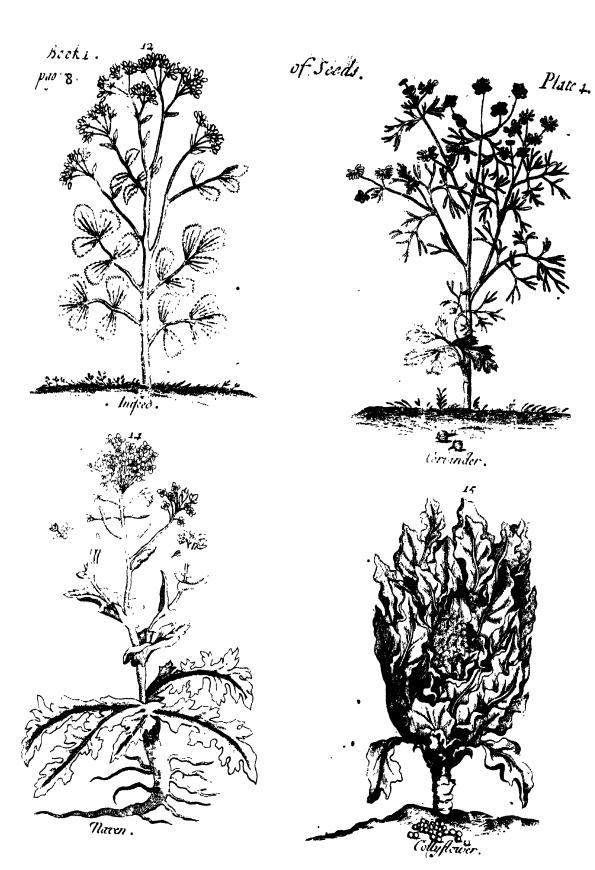
Make choice of Attrifeed that is of the same Year's Growth, large, clean, of a good Smell, and piquant Tafte, and beware of that which is any thing bitteriff, which you can't diffingulf but by your Taste.

The Use of the Gram Additional is too common to admit of a long Discourse; and the more, be-cause there are sew thems who do not understand that it is a Consection of Salar. The Confectioners make use of the Quantities of the dried Seed, which they cover with Sugar for Confections.

They draw from the Seed by Distillation, a Water, and a white Oil, which upon the least Cold congeals, and dispuises or flows again upon the smallest Heat; was has a strong penetrating Scent, and abounds with a great many Virtues; but its strong Smell makes it but seldom used; the Apothecaries and Perfumers use it frequently in their Pomatumi, instead of the Seed, as well to maintain the Colour, as to fave Charges; for half an Ounce of the Oil will do more Service every Way than two Pounds of the Seed.

The Perfumers keep it by them to scent their Paste, and to mix among a Variety of other Arnmaticks, which is what we properly call a Medley. Some People use this Oil, but very improperly, to make their Annifeed-Water, and the like. This Oil has a great many Virtues, and is an excellent Remedy to ease or allay the Gripes. especially in Infants, by rubbing the Navel therewith, or putting a small Drop or two among their Food. In a Word, it has all the same Virtues, and may be used to the same Intention with the Seed. There is likewise a green Oil drawn by Expression, of a strong Smell, and which has the same Virtues with the white, with this Difference, that it is not so powerful, because a great deal more in Quantity is drawn this Way; but it is not so pure, as Mr. Charas observes in his Royal Dispensatory, to whom we are indebted for this Invention.

In regard to the white Oil, we have it from Holland, partly because it costs less, and partly because it is whiter, clearer, and more fragiant than what is made here; whether this be purely from the Seed, or that they add fomething unknown to us by way of Menstruum, I do not pretend to fay, but there may be People found here who can make it as good as in Holland; but I am satisfied it could not be made for the Price it is bought for. In regard to the Choice of it, it ought to be, as has already been observ'd, white, clear, and transparent, of a strong Smell, easily congealing by a little Cold, and melting by a little Heat, and fuch as when dropp'd on Water, fwims like Olive Oil, and this Oil is call'd Essence, or Quintessence of Annisced. The Water that is drawn off in making the Oil, is useful on the



fame Occasions as the Oil itself, but requires to be given in a much larger Dose.

Anifum, in English Annifeed, is a very Lemery. common Plant in our Gardens; the Stem or Stalk is about three Feet high, round, hairy, hollow, and full of Branches; the Leaves are long, cut deep, whitish, odoriferous, and something like those of Parsley; the Tops bear large Bunches, fupplied with little white Flowers, much refembling those of Burnet Saxifrage: It has a little Seed, of a greenish grey Colour, scented, and sweet in Taste, with a pretty agreeable Acrimony. The Root is small, and this Plant is cultivated in fat Land: The Seed is only used in Physick: The largest and best is brought from Malta and Alicant; it is much browner than that of France, because it is a great deal drier.

This Seed yields a great deal of effential Oil and volatile Salt: It is cordial, stomachick, pectoral, carminative, digestive, produces Milk in Nurses, and gives Ease in the Cholick; it provokes Urine, warms the Breaft, opens Obstructions of the Lungs, is prevalent against Coughs, Hoarseness, and Shortness of Breath. Seed is used to make common Aqua Vita, with Irish Usquebaugh, Daffy's Elixir Salutis, and in the Laxative Electuary, or Confection with Sugar and Amomum, wherein the Seeds are steep'd in Liquors, in which Scammony is distolv'd, and sometimes in an Infusion of Crecus Metallorum. One Pound of Annifeed will yield about an Ounce of chymical Oil by Distillation, two or three Drops of which are specifical in windy Cases, Gripes in Infants, to take away Pains and Noise in the Ears; outwardly the Stomach or Naval may be anointed therewith, and it may be dropp'd into the Ears, mix'd with a little Oil of bitter Almonds.

Le Fehure is of Opinion, these Seeds ought to be distill'd, being green, without any previous Digestion or Putresaction, because this kind of Seed (suith he) abounds much with volatile Salt, of a middle Nature, so that the Water will not attract it to itself by length of Digestion; which will happen otherwise, if the Dissillation be begun immediately after the Seed and Water are mix'd together. 'Tis true, saith he, that if Digestion precedes, the Water will be all spirituous, and of much more Efficacy than without, but without Digestion the Seed will yield much more essential Oil.

[This is the Seed of the Anifum vulgatius minus annuum. Hist. Ox. 3. 297. Apium Anifum Dictum semine suave olente. Tourn. Inst. 305. The Plant flowers in July, and the Seed is ripe in August, the Root dying every Year, after it has

perfected the seed. The seed is one of the four greater hot seeds, and is an Ingredient in many of our Compositions.]

### 13. Of Coriander.

Corisnder is the Seed of a Plant which is very common amongst us, Pomet, and which grows plentifully about Paris, especially at Auberville, from whence all that we fell in the Shops is brought to us.

We ought to chuse such Seed as is new or fresh, fair, dry, well sed, the largest and cleanest we can get: Care must be taken that it be kept in a Place well secured against Rats and Mice, both those Creatures being very fond of it. It is but little used in Physick, but the Brewers employ it considerably, especially in Helland, and in some Parts of England, to give their strong Beer a good Relish. The Consectioners, after they have prepar'd the Seeds with Vinegar, cover them over with Sugar, which they call Ceriander-Confess.

There are three Kinds of Coriander, the Greater, the Less, and the Wild: but the Seed of the first is only used, being brought to us out of the Streights; the first, which is call'd Coriandrum majus, or Coriandrum vulgare, bears a Stalk about a Foot and a half, or two Feet high, round, flender, and full of Pith: The lower Leaves are like those of Parsley, but those which put forth towards the Top of the Stalk, are much less, and abundantly more cut in; the Flowers are small, dispos'd in Bunches or Clusters on the Tops of the Branches, of a whitish Flesh-colour; each Flower is compos'd of five Leaves; when the Flower drops off, the Cup bears a Fruit made up of two round hollow Seeds: The Root is small, strait, single, furnish'd with Fibres, and the whole Plant (except the Seed) has a very disagreeable Smell like that of a Bug.

The second Kind of Coriander, is call'd the Coriandrum Inodorum, or Coriandrum minus odorum, the less-smelling Coriander. This differs from the other Sort mention'd before, by reason it is much less, and its Branches more crooked. The Smell is nothing near so great, and the Fruit is compos'd each of two Balls, which in some Measure look like small Testicles.

Both this and the former Kind are propagated in our Gardens, but we only preserve the Seed for Physical Uses, which has the Virtue of the Plant, and is used in Confects, pleasant Liquors, and stout Beer. The greatest Part of the Coriander-Seed now in Use comes from Auberville and other Places about Paris: It produces a good deal

**Qt** 

of estimated Oil and Sale, corroborates the Stomach, helps Digestion, makes the Breath sweet, corrects Wind and flatulent Vapours, closes the Mouth

of the Stomach, and relists Infection.

[The three kinds of Coriander mention'd by Botanical Authors are the Coriandrum majus. C. B. P. 158. The Coriandrum minus, odorum. I. B. And the Coriandrum Spheeftre, of the same Author; but the last is now found to be only a Variety of the former Plant; the first Species produces the Seeds we use, and they are ripe in July and August. They are an Ingredient in the Lenitive Electuary, and some other Compositions.]

### 14. Of Navew, Bunias, or Napus.

HIS Bunias or Navery feed is the Seed of a Kind of Wild-Turnep, which grows frequently amongst Corn. Wild Nevero has generally a Number of Branches; the Flowers are yellow, except in here and there a Plant, which has them mix'd with white: The Leaves of all the Species are very near alike, only larger or smaller, according to the Fertility or Barrenness of the Soil that produces them. They likewise produce their Seed alike, in Husks of an Inch or an Inch and an half long, more or less so, according to the Size of the Seed which they bear. As for the Bunias, or Sweet Navew, the Seeds of which we fell, they are twice as large as-those of the other Sort, because the Seed is bigger. This Seed is round, of a purplish Colour, acrid and biting to the Taste, and in all other Things comes near to the common Turnep, excepting only its Alexipharmack Virtue, which is peculiar to it. The Species of this Plant, which grows plentifully almost every where, has a yellow Seed, which is less by half than the Bunias or Sweet-Navew, yet they are taken for one another. The chief Use of this Seed is for the Venice Treacle, which hardly makes it worth a Druggist's while to keep any Quantity of it. You ought to buy it of People you can depend upon, and always be carefull that you have not the common Turnep-Seed impos'd on you for it. Some Persons assure me, that the true Wild-Navew is the Briony.

But M. Tournefort condemns those who call Briony-Seed by that Name, and use it as such.

The Napus, Bunias, or in French, Lemery. Navet, scancely differs any Thing from the Turnep, but by a certain Bearing which the Gardeners and Labourers distinguish it by, and by the Figure of the Root, which all the World knows. There are two Kinds of it, the one cultivated and the other wild; the first is easted Napus by J. B. and Ray; Napus sativa

by Tournefort; and Bunies or Napus by Ad. Lob. The Stalk rifes about a Foot and a half, or two Feet high, and spreads itself into Branches: The Leaves are oblong, deeply cut, rough and green: The Flowers are compos'd of four yellow Leaves, form'd like a Crofs, which are succeeded by a long Pod of about an Inch, divided into two Apartments fill'd with Seed, thick and round, of a reddiff, or fomething purplish Colour, sharp and biting in Tafte: The Root is oblong, round, thicker at the Top, fleshy, and much less towards the Bottom, of a white or yellowish Colour, fometimes blackish on the outlide, and white within, of a sweetish Taste, and agreeably piquant: It is cultivated in moist Grounds for the Kitchen.

The fecond Kind is call'd Napus Sylvestris by Tournesort, and the Baubins, Bunias sive Napus Sylvestris nostras, Park. Bunium and Napus Sylvestris Ad. Bunias Sylvestris Labelii, Ger. in French, Wild-Navew. It resembles the cultivated Navew, except the Root, that is much less: The Flower is yellow, and sometimes white: It grows among the Corn: The Seed is preferr'd in Physick to that of the domestick Navew: Both one and the other Sort yields a great deal of Flegm, Salt, and essential Oil.

The Navew-Seed is deterfive, aperitive, digestive, incisive; It resists Poyson, and carries off the peccant Humours by Perspiration; it provokes Urine, is proper in the Jaundice, in malignant Fevers, Small Hox, and is employed in making of Treacle. The Root is excellent for inveterate Coughs, Asthma's, and Phthisick, taken hot by Way of Decoction, and is externally applied to digest, resolve, or allay Pains, apply'd in Form of a Poultis. The Seed, which is call'd Navette, is none of the Navew-Seed, as a great many believe, but is the Seed of a Kind of wild Colly-Flower, which they call in Flanders Colfa, or Rape-Seed, cultivated in Normandy, Britanny, Holland and Flanders. They make of this Seed. by Expressing, an Oil, which they call Oil of Navette: The Colour is yellow, the Smell not offensive, and the Taste is sweet. It is commonly used for Burns, and serves the Cap-makers.

[The Bunias order'd to be used in the Shops is the Napus Dulcis. Napus Sativa. C. B. Pin. 95. Bunias. Ger. 185. The Seeds are blackish, and of a biting Taste. And the Seeds of the Napus Sylvestris. C. B. Pin. 85. Bunias Sylvestris Lobelio. Ger. 181. are what we have the Oil from, which we call Rape-Oil, and the French Navetre-Oil.]

[It has been a great Controverly among the Learned, whether the Seeds of the Napus dulcis, or Sylvestris, should be used in the Venice-Treacle.

Galen

16 Place 5. of Scods. Book 1. Saintfoin. Galler differs from both Sects, and orders the Seeds of the Pseudo Bunius to be used in that below dicune.]

### 15. Of Colliflower and Rape-Seed.

Pomer. To have been is a little round Seed, Pomer. To have been like Tatnep-Seed, but that he is a little larger. It is brought to tra by the produced in the Place we know of where it produced in the Place we know of where it produced in the Place we know of where it produced in the Place we know of where it produced in the Place we know of where it produced in the Place we know of where it produced in the Place we know of where it is not near fo good as that Place Place with it is not mear fo good as that Place Place with the in the Place with the place with the Correspondence of the Cardener and others that have it, to be disappointed of a whole Year's Place of the Badness of

of a whole Year's Production by the Bacness of

the Seed.

The Colliflewer gives me an Opportunity of speaking of another Species, which some Authors call Wild-Collyflower, and which is propagated with great Industry in Holland, Flanders, Normandy, &c. for the lake of the Seed, which they make Oil of by Expression; and this is what is call'd Navette-Oil, and by the Flemings Colfa, or Rape-Oil. This Oil is of great Use to the Woollen Manufacture in France, especially in the Time of War, when Whale or Train Oil is scarce and The Goodness of this Oil is known to a great many Persons, whose Occasions oblige them to understand it; nevertheless I advise them to chuse such as is pure and unmix'd with other Oils, which may be early known by the Gold: Colour and Goodness of the Scent, for the true Rape-Oil is sweet, and on the contrary the Linfeed butter.

I have before observ'd, that it is from the Seeds of the Napus Sylvestrie that we have this Oil, which the People of Lincolnshire call Rape-Oil, and the Seed Cole-Seed I am perfectly certain of this, as I have myself seen the Oil made

there.]

### 16. Of Rice.

RIGE is the Product of a Plant Pomet. which grows very common in many Places of Europe: It commonly grows in the Water, and, as some observe, though the Water encreases during the Time of its Growth, it still keeps its Bit above the Surface of it. That

and Piedmont. This a Seed of to great UTe and Profit, that it may be call'd the Manna of the Poor, and throughout several entire Countries, they have scarce any thing else to sublist on.

Chuse the newest Rice, well cleans dy large, that is to fay, plump or well fed, white, not duffy, nor fmelling ranged: Those was take notice of the Rice of Plathillet, effects it much more than that of Spain, which is commonly reddish and of a falush Taste. The Use of Rice, thirty at Paris, is for the Line Scalon, when they boil it in Water, then in Milk; and formetimes reduce it to Powder, that is to fay Blour, which they use instead of Wheat Flours of thicken their Milk with.

To reduce Rice into Powder, your boiling Water upon it, and then with it with cold Water, fo often 'till the Water remains clear; after this put it in a Mortar to pound, and when it is powder'd fet it to dry, and them featite it fine; for it will often appear very fine when it is wet, and yet as it dies thew that it is bearfe and requires lifting.

It is restorative, nourishing and sweetning; it conglutinates the Humours, and is ufeful in Fluxes of the Belly; it purifies the Mass of Blood, and flops Hemorrhages. It is work, either in

Ptyfans or Food.

Belides this, we les Fearl or French Barley, which ought to be chosen new, dry, plump and well fed, white, but not blanch'd: It is prepar'd at Charenten, near Peris; but the best is that of Vitry. We likewise sell Rice that is brought from several Parts of the Country, but chiefly to make a Sort of Coffee of, which it taltes very like when burnt. The Poor buy what we call in England Greats, which is made from Oats, and when ground at the Mill is call'd Gatmeal. There is Millet also shell'd and pick'd, which they prepare in the Forest of Ordans: Besides other Pulle, as the green and yellow Peafe, which come from Normandy; and the Brans of Picaray and other There are offier Things also sold in the Places. Shope, which are made of Wheat Klour, as Ver-michelli, both the white and years Soft, and Starch.

The Vermichelli, which the Italians invented, and call Vermicelli, is a Parte made out of the anest Part of the Wheat Flour and Water, which is afterwards drove through small Pipes like Syringes, to what Longth at Thickness they please; so that from the Resemblace of its Figure to small Worms it is call'd Vermiselli. Some of this Kind of Patte they make in the Shape of Ribands, of two Fingers Breadth, and this they call Kagne; other Parcels of it are ferin'd like a Quill, and those they call Macarin , and some in small Grains

my, t C a

like Mustard-Seed, which they call Semsule, the Name by which they call the fine Flour they compose it of: And finally, some in the Shape of Beads, which they call Patrez. They colour this Paste as they fansy, with Saffron or other Things, and sometimes make it up with the Yolk of an Egg, Sugar and Cheese. Of late Years this is made at Paris, and used in Soups and Broth, as in Italy, Provence and Languedec.

The white Vermicilli ought to be new-made and as white as possible, and the Yellow of a fine golden Colour, the driest and the newest made

which can be got.

Starch, which the Latins call Anylum, is made of the Faculae of Wheat Flour, which the Starch-makers form into Cakes and dry in an Oven, or by the Heat of the Sun. This used to be brought into France from Flanders and other Countries, but at present that which is made at Paris furpasses that of all other Places; and they transport from thence great Quantities into other Parts of France, and several neighbouring Countries.

We ought to chuse Starch for being white, soft and most subject to crumble, likewise such as has been dry'd in the Sun, and not in an Oven, which makes it of a greyish White: Its Use is so generally known that it needs no Description.

Rice in English, is call'd Ris in Lemery. French, and Oryza in Latin: This Plant bears its Stalk about three or four Feet high, much thicker and stronger than that of Wheat or other Corn: The Leaves are long, like the Reed, and fleshy; the Flowers blow on the Top like Barley, but the Seed which follows is disposed in Clusters, each of which is encles'd in a yellow Husk, ending in a spiral Thread. This Seed is oblong, or rather oval, and white: The Plant is cultivated in moist or low Grounds in Italy, and the Seed brought dry from Piedment, Spain, and several other Places: Its chief Use is for Food, but is formetimes made use of in Phyfick: It nourishes well and stops Fluxes, therefore is good in Armies, Camps and Sieges, because it is light Carriage and excellent Suste-nance, and easily prepard: It encreases Blood and restores in Consumptions: It is made into Frumenty by boiling in Milk, or, for want thereof, in Water; or into Cakes with Water or Milk, and so baked dry; and is excellent good in Broth, with any Kind of Flesh.

[Beside the other Uses of Rice there is an excellent spirituous Liquor made from it, which the People of Peru call Acua, and we, from a wrong Pronunciation of the Word, Arrack.]

[Rice is the decorticated Seed of the Oryza. Ger. Park. &c. It is cultivated in many Coun-

tries, and is excellent both in Food and in Medicine, in Fluxes of all Kinds.]

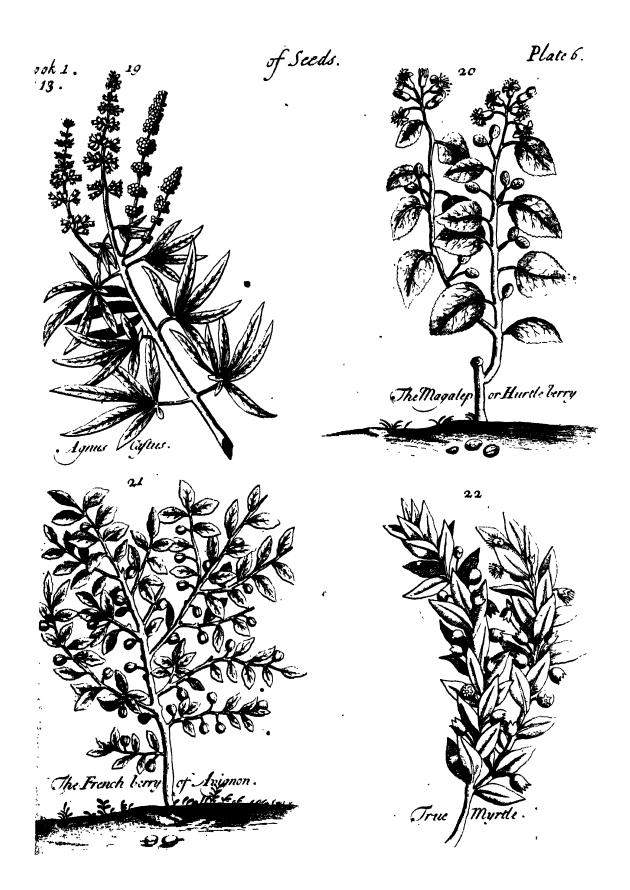
### 17. Of Fenugreek.

Emgreek, which fome call impro-A perly Senegre, and others Bucera, Pemet. or Aigeneres, because the Pods which enclose the Seed, resemble in source Manner a Goat's Horn, is a Plant which grows in several Parts of France. Its Stalks are round, hollow, of a darkish Colour, the Leaves small, roundish and indented, growing three and three together, after the Nature of the Trafail; the Flowers fmall and white, which are fucceeded by a large Pod, which is long and tharp, representing, as faid before, a wild Goat's Horn. The Seed bears the Name of the Plant, and is the only Part of it which is fold by the Name of Fenuereek. This Seed ought to be fresh, of a lively yellow, towards a Gold Colour, but it becomes reddish and changes brown if long kept: It is about half as big as a Grain of Wheat, hard and folid, and is of something like a triangular Shape, but a little cut in, almost all round, near the Middle, and of a strong and very disagreeable Smell. The Farmers about Aubervilliers fow and cultivate this as they do Coriander-Seed: It is fent to Paris, and from thence to Holland and other Parts. The Ancients, and some Germons at this Time, make a Decoction of this Seed, and eat it as they do other Pulse, to remove and expel Wind; but I believe few or none will imitate them in this Practice, which is so disagreeable to the Nose and Palate: It is much better for Cattle, and especially Horses, to mix with their Oats to fatten them; But it is no good Nourishment for them, according to the Account of those who have experienced

It is principally used externally, as well in Decoctions as made into Powder and mix'd in Cataplasms that are intended as Resolvents and Emolients.

There is no farther Skill necessary in chusing Fenugreek, than to see that it be new, well fed, and of a good yellow Colour.

There are two Sorts of this Plant, but their Difference only confifts in Lemery. that the second is something less than the first, but the Virtues are equal, both of them being emollient, discussing, and anodyne; so that almost all Cataplasms for those purposes consist in a part of the Muchage of them. They are also used in emollient Clysters, for that they blunt the Sharpness and Acrimony of the Humours, especially in the Bowels.



[The Hant which purchased his is the Ramun-gracum telephone. C. B. Pin, past Hift. Ox. 2, 256. The Stille are single, flender and hollow, the Leaves green on the upper Higg, and affi-colour'd beneated. The Rods long, flender, and fwelling in the middle, each containing five, fix or feven Seeds. It flowers in July, and ripens the Seeds in August, and then the Root perilhes. They enter into the Composition of many of the Shop Plaisters and Dintments, and it may be added to the Account seed given of their Virtues, that they mitigate the Raman, the Sciatica, and discuss Turnous of the Breats.]

18. Of Luzerne Burgundian Hay, or

THIS is a Species of Trefoil, or Saintfoin, to which some have given the Name of Medica or Median Hay, because the Greeks, after the War with Darsus, carried this Seed into Greace, and gave is the Name of its native Country, which was Media. This is a Domestick Plant, and very common in Language; Frances, and Dauphine, all along the Banks of the Rooms, and in Normandy, from which Places the Seed is brought to Paris. This is a very luxuriant Plant, and produces abundantly, especially in the warm Countries; the Branches do not run along the Ground. as in several other Tresoils, but it has a round Stalk, reasonably thick, strait, and strong, adorn'd with feveral Shoots; towards the Top, fpring a Quantity of Leaves ranged by three and three; and it grows about the height of a Foot and a half, and formetimes two Foot. From among the Leaves a purple Violet Flower rifes, like, that of the Melilot, and after that the Seed: This is almost round, but a little longish, and fomething pointed, of a pale yellow Colour when it is new, afterwards it turns red, and almost brown when it grows old. It is fomething less than the Seed of the Garden Cresse, and the Talke is something like it, but that it is not quite so hot.

Horfes, Mules, Ozen, and other domestick Cattle, love this exceedingly, but above all when it is green, if you wou'd permit them they wou'd then eat of it 'till they burst; for which Reason the Farmers never dare give them a great deal of it at a Time. And tho' when dry it is very proper to fatten them, yet the Excels of it is always dangerous.

Parkinfon calls this Fænum Burgun-Lemery. diacum, five Medica ligitima, Ger.
Trifolium Burgundiacum, in French it

is Luzerne, and bears it Leaves disposed three and three, like Trefeil, actividing to life. Tournefert: Its Root is very long, woods, moderately thick and strait, and will bear the frost: it is not only cultivated in the first man in the first is in the strain of the lights in a fat they sail want may be moved five or fix times a first. It is extraordinary to make Cattle fat, this ships forme, with Milk; contains a confidence desire Oil, and a moderate Share of effective desires forme, with Milk; contains a confidence desired Oil, and a moderate Share of effective desired Oil, and a moderate Share of effective desired Oil, and to provide Urine, used as Tea, or in a Decettion with Water.

[This is the Seed of the desired field of the strong surperascentisms.] B. A. Miles. Malica sativa surperascentisms. B. A. Miles. Miles. A. Malica. Sativa surperascentisms. B. A. Miles. Miles. A. Miles. Miles. A. Miles. M

Prescription . 1, .

19. Of Agents Caffus, or the Chafte Tree.

THIS Agnus Caffus, which fome call by the Name of Vitex, is a Plant which grows in Form of a Shrub, along by the Sides of Rivers and in Gardens; its Flowers are like those of the Olive-Tree, but that they are fomething longer: Its Trunk and Branches are woody, which end in feveral long Boughs, fire, pliable, and intermix'd with Leaves. Flowers and Fruit in, its Staten, which appears white at first, but becomes intensibly red. Some People call these Little Scools Spail Pepper, or Wild Pepper, as well because their round Fi-gure renders them like Pepper, as because their Tafte is a little biting and aromatick.

This Plant bears the Name of the Vites, because its Branches are platte, like those of the Ozier or Willow. And the Name of Agnus Castus, because the Athenian Lasies who were willing to preserve their Chastity, in the Thesmophera, the Celebration of certain Rights to the Goddels Geres, made their Beds of the Leaves of this Shrub, on which they lay; But it is by way of Kalicule, that she Name of Agnus Castus is now given to this Seed, fince it is commonly made use of in the Cure of Venerett Cases, the common Consequences of Propiet having violated their Chastity. However the Seed ought to be chosen new, large, well-fed, and such as grew in the hot Countries, which is much better than that of reading Chimber.

The Seed of this Shrub is round

and grey, almost like Pepper, having Lemery. fomething of the Tafte and Smell,

and therefore is often called by the Name. It delights in wild uncultivated Places, near the Banks of Rivers, Ponds, and Brooks in the hot Countries, where it profpers best, and from whence the Seed ought to be chose, as much better than what grows in the Northern Parts: Take that which is fresh, large, and well fed; it is hot, attenuating, and thiculting, provokes to Urine, and excites the Monthly Courses; it softens the Flurdness of the Spleen, expels Wind, and may be given in Powder, or a Decochion; and is likewise used externally by way of Poultis, &c.

This is the Seed of the View five Agues Coffee. Ger. 1201. Vires fellis angulioribin panabis and dispositis. C. B. P. 475. It is common in Italy, Sicily, Gr. the Leaves are very beautifully divided as it were into Fingers of a Hand, the Flower white, the Fruit round and naked. It flowers in August: Authors do not feem well agreed about its Virtues. It has been however a Medicine in great Esteem, and a principal Ingredient in many Compositions, but is now grown quite out of Use.]

20. Of the Wild Cherry, call'd Mahalep.

Pomet.

Mabalep, is the Kernel of a small Berry, almost like a Cherry-stone, which grows upon a kind of a Shrub, which some Authors believe to be a kind of a Phillirea.

The Leaves are large, enting in a Point, and something resembling those of the Cherry-tree, among which the Fruit arises, covered with a

finall green Coat, extreamly thin.

This is brought to us from leveral Parts, but especially England; and the best Choice to be made of it, is, by taking the freshest, largest, and that which is least fill'd with little Shells, and taking Care that it has no ill Smell; for there is some of it that smells so strongly, like Buggs, that it is hardly to be used. The Use of them is for the Persumers, who, after they have broke 'em, mix them with common Water, Rose, or other distill'd Water, to wash their Soap with, in order to make Wash-balls.

Mr. Tournefort calls this Mahalep Ce-Lemery. rafus fylvestris amara: By others, it is called Phamacerasus, and Vaccinium Psimii. It is a kind of Wild Cherry, or a small Free simost like the common Cherry: The Wood is of a greyish Cast, inclinable to red, agreeable to the Eye, firm, and of a sweet Flavour, covered with a brown, or a blackish blue Bark: The Leaves are like the black Poplar, but much less: The Flowers resemble the ordinary Cherry, white, and each composed of five Leaves, in Form of a Rose, of a good Smell. When the Flower falls, the Fruit succeeds, which is round, black, and of the same Shape with the Cherry, containing a Nut, or Stone in it, which yields a Kernel like the bitter Almond. Some People call this Fruit Vaccinium, and pretend it is that which Virgil beaks of in this Verse

Alba figustra cadunt, Vaccinia nigra leguntur

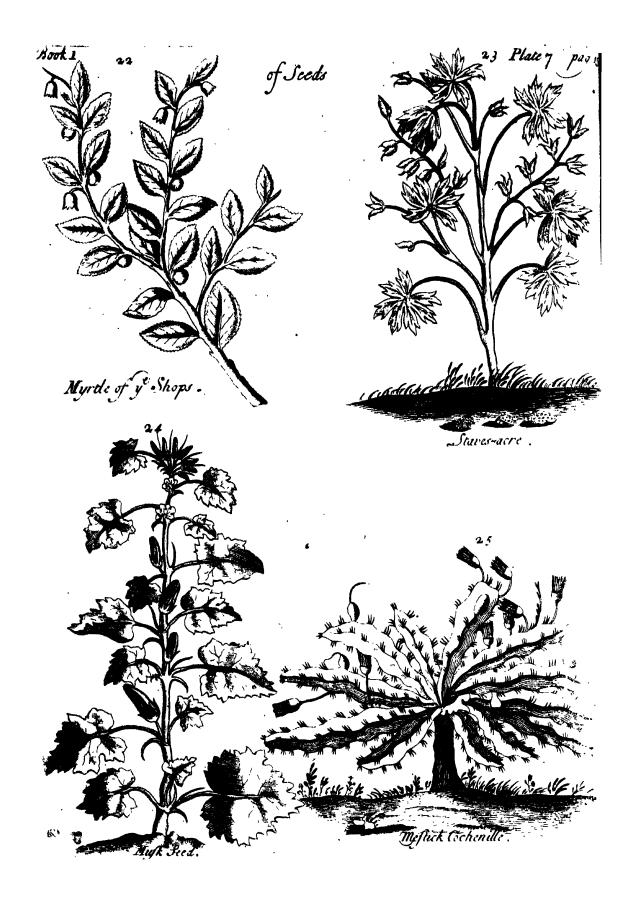
The Root is long, thick, and spreads itself into a great many Branches. The Fruit yields a good deal of Oil and volatile Salt: It attenuates, is emollient, sudorifick, and drying. The Use of it is for external Application, but is little in Practice. [The Tree which produces these is the Rock Cherry, the Macalto Gesneri Ger. 1211. Cerasus Sylvestris Amara Mahaleb putata. J. B. 1. 227. It grows in stony Places, on Mountains, and slowers in May.]

21. Of the Avignon, or French Berry for dying, call'd Box-Thorn.

THE Avignon, which some call the Yellow Berry, is the Fruit of a Pomet. Shrub which Authors call Lycian from Lycia, where it grows plentifully, as it does likewise in Cappadocia: And it is sometimes call'd Pyracantha.

The Shrub which bears this Berry, grows in large Quantitics about Avignon, and all the stony Places in the Country of Venaissin, and likewise in several Parts of Dauphiny, Provence and Languedoc. 'Tis a thorny Shrub, whose Branches are about two or three Foot long, the Bark grey, and the Root yellow and woody, the Leaves small, thick and disposed like those of the Myrtle, but of the Size of the Box; the Berry is about the Bigness of a Wheat Grain, sometimes consisting of three, sometimes of four Angles, and sometimes made into the Form of a Heart. The Colour is green, turning towards a yellow, of as astringent and very bitter Taste.

The Use of it is chiefly for the Dyers to stain a yellow Colour with: But the Dutch boil this in Water with Roman or English Allum, and the white Chalk they adulterate the Cerus with, and make it into a Kind of Paste which they form into twisted Cakes, and when they are dry send them into other Countries under the Name of Stil de Grain; which to have its requisite Qualities ought to be of a golden yellow, tender, friable, and with as little Dirt in it as possible. It is used for Painting in Oil Colours and Miniature.



By some this is call'd Lycium Buri-Lemery, folio, by others, Lycium Alpinum, and Photoconten, or the yellow Berry; it Dyles, who ought the Parts of this Plant are affirment to the which the Parts of this Plant are affirment to the which the part of the Roots and Barnines of the which the last of or Lycium:

affigus to the which the part of the Roots and Barnines of the which the part of the Cataracta, for Cataracta, for Fre affigns to the an proper to dry to

to differ the continue of the Hoody-flux and Heinorchaus, resemble for the Bloody-flux and Heinorchaus, resemble for the Bloody-flux and Heinorchaus, resemble for the Bloody-flux and Heinorchaus, resemble for the Lycium fore Pyracamtha. The first Lycium for Pyracamtha. The first Lycium Buxifoliis rotunder flux fyriacium velice ficum, Breyn Prod. 2. 64. It is common to the hear Continues, What we once used in Stroffer was a first for infaiffated Juice from the Laures and Scane is which Diofcorides gives the Method of matring; but this while in use was generally adulterated, or made while in use was generally adulterated, or made from the Berries of the Woodbine, Privet, Sloe, or fome other Shrub; It is now grown wholly out of Wall

H Emprile Berries are Seeds of certain Shrubs call'd Myrtles. Pemet. which Authors have divided into feveral kinds, but I shall confine myself to two forts, which are commonly known and cultivated about Paris; the one is the Male, and the other the

are of a black Colour, first well dried in the Sun. and then kept carefully for Ule.

The Morte is a final Tree or Shrub The Aprile is a final Free or Shrub Labor, that is there's price and fragment, of which there is the last and fragment, of which are known by the fize of the Leak and the Colour of the Fam. Adv. Tourne has here that when the Flowers goes the Bour, course in the Cup, of an oblong godd Form, representing a fort of a Crossowellar the Mouth of the Cup is turned downward. This Plant is cultivated in our Gardens that the Mouth of the Cup is turned downward. This Plant is cultivated in our Gardens that the plant is cultivated in our Gardens that the plant is cultivated in our Gardens that the plant is cultivated for bright is much the result of the form the field. The Leaves and Flowers have a all imagent Quality, and are the for eleminating the Plant, for contracting the Field, three planting the Field. Section thence a Water is plant for the Ladies to wash with. The Berries at the binding deterfive Power, and the shymical Oil from thence is excellent for the Hales, and water is proposed in Pomatums, and cellent for the Har, and what in Pomatums, and most other external superficient of the Face and Skin.

These are the Berries of the Myrtus batica Sylvestris. Ser. Em. 1412, Martus sammens talica. C. B. Pin. 468. They have been frequently Tubject to be adulterated with the Berries of the Vitis Idaea Angulofa J. B. Which as Burbaum observes have thence got the Name of Myrtilli. They are recommendation of feveral of the Language Plaisters.]

Of Stavelague

and the Leaves of a pale Green, terminating in a point, finooth, fragrant, and three or four Times as big as those of the Kemale Myrtle, whose Leaves are of a dark, green, and known by their being rang'd very near one another; befides, the Smell is much stronger and finer than that of the Male, and the Branches more yielding: The Flowers of both kinds are note fallstoned, of a white Colour, tending a little to sol, and arising directly in the middle between two Leaves, to which the Berries afterwards succeed, which at first are green; but grow, inscriblly blank, index, index, and are afterwards succeed, which at first are green; but grow, inscriblly blank, index, index, and are strength to be the same that the sum of the same of the first series for mide with a sum of the same of the first series for the same of the same o

It is call'd Staphisagriu, Herba Pidicularity by Mr. Thurnefort, Delphinium Lamery. Platant faller, Staphis agria dictum, or in English Louis Serb. It raises its Stalk about in English Louis Fiers. It raises its Stalk about a Foot and will be school. Or two Foot high, upright, round will be school of two Foot high, upright, round will be school of many unequal Leaves, and follow'd lays, kind of rough three-corner'd Sects. If takes inwardly, which is but seldom, it purposed two to the will be a Massicatory for the Tooth to. Law, As a Massicatory for the Tooth to the News of the South Stalk about a supplier to the News of the South Stalk about a supplier to the News of the South Stalk about a supplier to the Children Fleads, which is its thief Use: So also with Vinesar, 18 of a churlish Nature, and not fit to take Inwardly.

[The fleth which bears it, is the Staphis agria Gur John he Aconitum ureus Riciai fere foliis, fore corules marie Stophis agricultus Pluk almag.

357. The Scott the a finding Purge taken in the Quantity of ten, or welve Grains, but few People care to use them; and our Quincy ranks them with the New Vomica Cosculus Indi. &c. and fays they are all much of the same Nature.]

### 24. Of Amber, or Musk-Seed.

THIS is a small Seed, of the Size of Pemet. a Pin's-head, of a greyish sad brown Colour, in form of a Kidney, of a Musk or Amber Smell, especially when it is new, which give it the Name. This Plant which grows frait is idented with a green Velvet Leaf, like that of the Marie Malant, whence it is call'd flow facine Villey. Fulley fignifies Indian Valore Malant. It bear valor Flowers in form of Bells, which are factorized by triangular Likes, bears on the warder, and white within, a Finger's Length, in which the Seed is entire of a good Sees is contains a large Quantity of exallest the ridge to the seed with a comes from Marie in the which grows in any other of the Caribes Mands. This Plant grows likewife in new, which gives it the Name. This Plant which Caribes Mande. This Plant grows likewise in Egypt, where it is call'd Musk-seed and Abel-musk. The Persumers use this all over Italy, and

the Bead-makers in making their Beads.

This Send is fomething like the Mil
This Send is fomething like the Mil
This Send is fomething and is brought

The Martinica and Egypt; it comes from a kind of Ketmia, and is call'd by Tournefort, Ketmia Expetiaca Semine Moschatz. This Plant carries its Stalk a Foot and a half

high; the Leaves are of an unequal fice, the nut and indented services. The Age internally as a service, to fortify the mach and stood, and grateful Scott not proper for toxic firms, relates. N

THE Cochenille, Feet high, adorn'd with seaves two Pomet. Fingers thick, of a beautiful Green, and very prickly; among which grow Husks in form of a Heart, of a green, tending to a yellow Colour, in which are exclosed a Quantity of small Seeds of the transfer of rough, of a greyish silver Colour to the Eye, and The Plant which bears as red as Blood within. them is call'd Opuntium.

We bring this Seed from *Peru* and other Places of New-Spain, as the Gulf of Mexico, from whence it is brought' by the Spanish Galeens, or Plate-Fleet to Cadiz; is Ipecacuana, the Cortex, Sarsa Parilla, and other Drugs are; and from thence transported to England, Holland, or France.

The Mestich Cochenille is a Thing of that prodigious Confequence to the Spaniarily that they would undergo any Punishment, rather than yield

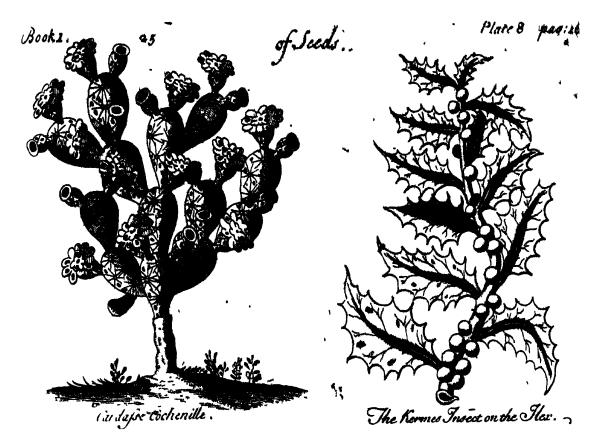
There are very few Persons on what believe, that this Cachenille is a little Animal or Insect; and I was of the fame Opinion, 'till convinced of the Truth of the contest, by two Letters of the Sieur Francis Rouffeau a Marine of August, dwelling let Lagrange heat at Lamingo, who writes to me thus:

writes to me this:

"The Cochange Months which you we do fire to the cochange of the Pant, prows about two or three Plant high annually with Leaves of two Fingers Thickness, of a fife preen Colour, full of Thomas on all billess the Seed is small, and contains in Hulls form differ Hearts, turning to a Yellow for they grow ripe.

"What is brought to the they grow in those of Parts call'd the fire they grow in those or parts call'd the fire they grow in the seed about Leavennes, is not worth forestilly of

" about Legama, is not worth freaking of."







We may see this is quite contrary to what is reported by Monsieur de Pareciere, who communicate the fearlet Grain, which is Kernett with the Gochenille; and, at the End of his Discourse, obferves that it is a grayith Worm, or lather, which comes from the Indies, and which they traffick confiderably in; so that from Tlascala, a City in Mexico, they deal for supple than two handrall thousand Crowns a Year. And, after him, the Reverend Father Phonier, Minimo Friar, told me, the 13th of September 1692, from his own Mouth, and certify'd under his Hand as follows:

"The Cochemille, fays he, furnamed Adeflich, is a small insect like a Bug, which is found upon many different Sorts of Plants, as well in New " Spain as the American Mes; These little Ani-" mals are following in the Countries thereabout, that they make a Sort of Crop of them.

"All Kinds of Plants are not equally proper to fupply these little Animals with Aliment capable to produce a thorough Rednels; therefore the 45 Inhabitants of those Parts feed their small Cattle " upon the Opentium, the Juice of which is red, " which they feed on, and which contributes very confiderably to strike the Colour deep, which " the Dyers feek after; and, as the Ants delight cxceedingly in these little Insects, the Spaniards " take care to fill those Places full of Water, by Ditches, where the Plants grow, whereof we " have been speaking, to prevent the Ants from

" going thither.
" The chief Plant on which we find the Cochenille, is that which the Americans call Rae quette, or Cardasse; and the Botanists Opentium " majus spinosum fructu sanguineo; which significs " the large Indian prickly Fig. whose Fruit is as

" red as Blood.

"This Plant is wonderful in its Kind, in this, "that it is wholly composed of a Quantity of " large, thick Leaves, which are of an oval Fi-" gure, a glorious Green, cover'd with long "Thorns, very fharp, of a yellow Colour; and " at the End of the Leaves grow large Flowers, of a pale Rose Complexion, follow'd by a fine " red Fruit. These little Insects, of which they " make the Cechenille brought to us, are of a Sil-" ver-grey, but of that particular Kind, that they "multiply after a prodigious Manner, so that a " Hundred will produce Millions,"

On the 30th of January, 1693, the faid Father Plumier brought me a Letter writ by him-

felf, to this Purpole:

#### Father Flumier's Declaration concerning Cochenille.

"The Orthopille which is brought from New " Spain, or the Continent of America, is an InMill of the Size and Form of a Bug, which clings 44 to feveral Sorts of Press, but entire particularly to the Acade, or to certain! Trees, which the " People of the French Mandy call Cherry Trees. it is a very fruitful Animal, and carries between the Thighs, and on its Break, an infinite Num-ber of Eggs, which it's didn't invibible, yet pro-"When the old ones ma orafla'd, they yield a red Juice inclinable to Scarlet, mixed between throughout with a little Tinga of Yellow; fo "that those which wild bred his the Trees, do not produce so fine and lively a Colour & But the Indians, to render the Juice of a beautiful "Colour, breed these Insects upon certain Plants, " which are call'd in Latin Opentium, and which " the French call Requettes. These produce a " thick Fruit, like our Figs, full of an admirable "fine red Juice, of which the Cochemilles feed; which is the Occasion that the Cochinents cul-" tivated on these Plants have a firrer and higher colour'd Juice than those which live on any " others. When I discover'd these Insects in the "If I are of St. Domingo, I show'd them to two In-" dian Slaves, that were Natives of the Country " where they breed, and they affur'd me both, that "these were those they made Cochenille of.

"Being on my Return from my Voyage to " St. Deminge, I was defirous to fet myfelf right " about this Insect, from the Authors who have " writ of America; and here follows what I found " in the Sieur de Last's Description of the West

" Indies. Book V. Chap. 3.

"The Gechineal Grain comes from several Pro-"vinces of New Spain, taken from the Tree " call'd Tuna, which bears very thick Leaves, on 66 which it grows in Places more expos'd to the "" Sun, or cover'd from the North-East Wind. It " is a very little Animal, living as an Infect much " like a Bug; for when it first clings to the Tree, " it is less than a Flea, and comes from an Egg " the Size of a Mite, call'd, in Latin, Acarus ; "They fill the Tree, and spread over the whole "Garden, and are gather'd for Use once or twice " a Year. These Plants are dispos'd in Order, as " they do the Vines in a Vineyard; and the younger they are, the more plentifully they bear, and afford a better Grain; but it is necessary to or preserve them from being destroy'd by other Insects, and no less from Pullen, which will cut " them.

" Note, This Tuna is nothing elic but the faid " Opentium, of which I spoke before; there are " feveral Sorts of it, but the Choice for cultiva-"ting Cechineal ought to be made of such whose Fruit produces the finest red Juice."

Howeve

However, not being able to bring sayled to agree to what Mr. De Farstiers, the Revesced Father Plumier and Last have writ, I find myfelf more and more obliged to believe that Cachenal is the Seed or Grain of a Plant, because the Sister Roussess takes Notice to me, at the End of his first Letter, in order to justify what he says, That he would send me the Plant, which he hop'd to do, with God's Assistance: And in his second Letter, dated the 25th of May, in the same Year, he writes thus:

SIR,

"IN relation to the Gorbinsal, about which I have been speaking, I must tell you a pleasant 66 Story, of a certain Minime Father, who calls "himfulf a Botanist. He is about 45 or 50 Years 56 old, of a blackish Complexion, whom one might " naturally judge a Man of Knowledge, if he " never spoke. He saw several Acacia's, which are very prickly or thorny Shrubs, and what they 46 call Cardoffes, which are a Sort of Plant that bears Leaves of two Fingers Thickness, made a " little like the Requetter, which produces Fruit " of the Shape of a Fig, of a Take a little acrid, " and which makes the Urine red: Certain Ani-66 mals that frequent thefe Trees, he affirm'd, " were the Cechineal, and made a great deal of 44 Laughter among the Inhabitants of St. Domin-66 go. This loft the Credit the good Father had "there, especially with Mr. De Cuffi, who had 44 his Share, among the rest, in the Diversion " they had from what the good Father faid. He de-" parted for France sometime after, where I know \*\* he arriv'd with the fame Error concerning Cost chineal, that he had been in at St. Domingo."

The Sisser Roussau inform'd me again, that he had found upon the Acacia's, a Species of little Creatures of the Size of a Bug, which they call'd Vermillion; these are a little thicker, but they are of no Use, because they cannot dry them; 'tis apparent, as we may rationally conjecture, that this was the pretended Cochmille of Father Plumiser.

Besides the Letters of the Sisur Ronsseau, there are other Things which deserve our Credit; as, that we cannot discover the Feet, Winga, Head, or any other Part of an Animal in the Cochineal, which we have; and that it has in it all the Marks of a true Seed. And if these Proofs are not sufficient, we may look into the Judgment of Kimenes and William Pise, in his History of the Plants of Brasil; where, after he has given a long Description of the Species of the Indian Fig, which is call'd Jamacan; he says it is the same Plant that in New Spain produces and bears the Cachineal.

We ought to make Choice of the Melleck Cochines, of a good Sort; that is, such as is plump, large, well fed, clean, dry, of a Silver shining Colour on the Outside, and when it is chew'd in the Mouth, that singes the Spirite of a bright red Colour; and reject that which is lean, dirty, and light; and take particular Care, less there be small Stones among it, which is a very common Case, 'especially when it is dear.

The Cochineal, when dry, is of good Use in Medicine; but is abundantly more used by the Dyers, as their principal Bass for the Scarlet Colour. Some People use it to colour Sagar, adding a little Cream of Tartar in fine Powder, or some

other Acid.

### Of Carmine.

Carmine is a very precious and rich Commodity, which is made of Mefteck Cecheneal. 'Tis a Flower or Powder of a most beautiful red Gloss, and that feels like Velvet, which is made by means of a Water, in which the Seeds of Chouan, and the Autour Bark, a Bark brought from the Levant, and having fomething the Appearance of Cinnamon, but of an inlipid Talte, have been infus'd; and which, when prepar'd and dry'd, is call'd Carmine; which, to have the requisite Qualities, ought to be an impalpable Powder, of a high Colour, and fuch as has been as properly and faithfully made as possible: But as its great Price is the Occasion of wicked Peoples sophisticating it, one ought never to buy it but of such Merchants as are above such Frauds, or above selling the second Sort for the first, which is extremely finer. Some are for Carmine of Recou; but it gives a Tinge more of an Orange Colour. The Use of Carmine is for Miniature, and making the finest red Draperies.

### Of fine Lake, and other Sorts.

The fine Lake is that which takes its Name from Venice; because what has been sold among us hitherto, is brought from thence: But at prefent several Persons in Paris make it to answer effectually; so that a great many Painters preser it to that of Venice. This Lake is a hard Paste, made from the Bone of the Cuttle Fish, which is colour'd with a Tincture drawn from Meficik Cochineal; of the Wood of Brafil, of Fernambucce, burnt English Allum, Arfenick, and a Linivium of the Natrum of Egypt, or white Tartar; by means of Cloth they strain it, and proceed as in the making of Indigo: From thence reduce it into a Paste, of which they make Troches, and dry them for Service. The Ule of this Lake is both for Miniature and Painting in Oil. 0f

### Of the Dove Lake.

This is made likewise with English Albana, and form'd into Partiles of the Thickness of one's Finger, and so day'd. That of Vasice is shundardly finer than that of Halland or Paris, because the White that the Venetians use, is much finer and properer to give a lively Colour than the White of of Holland or France. The Use of this Lake is likewise for Parising. There is a third Sort call'd Liquid-Lake, of which I shall speak in the Chapter of Fernambucco-Brasil.

### Of fine Turnefol in Linen.

The fine Turnefol of Constantinople is made of Holland, or fine Cambrick, which has been dy'd with Cochineal, by means of some Acids. This is us'd for tinging of Liquors, as Aqua Vite, or the like. The Turks, and others in the Levans, call this Turnefol Linen, the red Bizzeres.

## Of Turnefol in Cotton, ar that of Portugal, vulgarly called Spanish-Wool.

The Portuguese bring this to us in Cotton, which is of the Figure, Thickness and Size of a Crown-piece; they use it to colour their Gellies, but it is much less used than the Turnesol in Linen; it ought to be of a fine Red; the dryest and cleanest that can be had; and these are all we have from Mesteck Cochineal.

The other Sorts of Cochineal are the Campachy,

the Tetrachalle, and the Wild.

The Campechy-Goebineal is no other than the Siftings of the Messeck; the Tetracballe nothing but the earthy or drossy Part of the Campechy; and the Wild or Seed Cochineal, that which we find upon the Roots of the great Pimpernel, call'd by the Botanists, Pimpinella Sanguisorba.

[Cochineal is the Cochinilla de Last. 229. Cochenilla Hispanis Breyn. Hist. Coce. 6. Nepaluscheath seu Coccus Indicus in Tunis quibusdam nascens Hern. 79. It is a small Insect, brought us dry'd from Mexics, the only Place in the World

where it is propagated for Ufc.]

There is not, perhaps, any Drug about which there have been more Disputes among Authors than this: It was at first long believ'd to be a Vegetable Production; and when that Error was got over, and the World was perfectly convinced that it belong'd to the Animal Kingdom, there were yet a Number of mistaken Opinions about its Nature and Origin. It was a long Time believ'd to be of the Beetle Kind, and to resemble what we call the Lady Cow; nay, some have

been so hardy to affirm, that it was that very Creature: And an Author of fome Credit, in Conformity to this Opinion, gave Figures of it in the different States of an Hexapode Worm, Aurelia, and perfect Bottle; Changes necessary to support that Account of its Nature, but such as the Creature never known. The accurate and indefatigable Mr. Leweberck came nearest the finding its true Production, in his Examination of its Eggs, in which he always discover'd a fix-footed Animal: But we never were truly acquainted with its Nature and Origin, 'till the accurate Mr. De Reasonar, in his Memoirs, Pour servir a L'Histoire des Infattes, undertook to give the Hiflory of it. That excellent Author has referr'd it to a Class of Animals unknown 'till his Discoveries, and, by him, call'd Progallinfects.

Its general History from him, and from the Accounts of intelligent People, who have seen it in Mexico, which agree very well with his Opinions, is then, in few Words, that it is a fix-legg'd, viviparous Insect, of which the Female is only us'd, which is produced from the Egg in its perfect Form, and has no Transformation, as it is call'd, afterwards. It is very different from what the Accounts of all the older Authors have said of it, and like no other Insect, but those of the same Class. It has no Wings, nor any Use for any; its whole Life, except a few Weeks after it is hatch'd, being spent in one Place, where it is fix'd to the Vegetable it feeds on: The Male is supposed to be a small Fly, but is wholly unknown among us, the Female only being what we call

Gochineal.

The great Plumier, therefore, whom this nameless Author attempts to ridicule, was perfectly in the right, and has the Honour to have been the first who spoke with any Degree of Propriety of this Drug; for his comparing it to a Bug; is much more just, than the later Opinion of making it a kind of Lady Cow, to which it has not the least Resemblance.

[What our Author calls the wild Gockineal, is the Coscus Radisum, Brown. Coscus sinctorius Polonicus quibuldum Progatkinfeste des Racines Reaum. T. 4. p. 116. It is an Infect of the same Class with the Cosbineal, which remains the greatest Part of its Life six'd to the Root of the Polygonum Polonicum Cocciforum, I. B. 3. 378. Knowel incanum store majore perenne R. Hist. 1. 213. Knowel folio et store candicante Rupp storgen. 26. It is also found on the other Plants, and in other Places besides Poland; but there, and on that Plant, most abundantly.]

Languedoc.

25 Of the Scarlet Grain, or Alkerines.

Pomit. THE Scarlet Grain, which the Pomit. Latins call Grana Tinctorum, the Greeks, Coccus Infectorius, and the Arabs, Kermen or Kermen, is the Seed, or rather Excrement of a little Shrub, whose Leaves are prickly, almost like those of Holly, except that they are much less. They are found in great Quantities in Pertugal, Spain, Provence, and

I shall not stay to describe the Shrub which bears this Grain, all Sorts of Authors having made mention of it: I shall only observe, that what we call the Grain, that is, the Kermes, is fasten'd to both the upper and under Side of the Leaves of this Shrub: And when it is a good Year, it is one of the principal Riches of the Countries where it grows, especially for the poor People, throughout all Provence and Languedec; where it costs them nothing but the Trouble of gathering, and they fell it by the Pound to the Apothecaries; who, from the Pulp, make a Syrup they call Alkermes, and the Remainder which is left in the Sieve or Strainer, after it is cleans'd, they fell again to the Dyers, for as much as it collathem at first. Those which they would transport, or send to other Places, they dry, as well for physical Use as the Dyers, who use great Quantities of it; for which Purpose they chuse the largest and most weighty, and that which is new, that is to fay, of that Year, with its outer Rind, the reddeft and cleanest that may be; for when it begins to grow old, an insect breeds in it which existhrough the outer Rind, and hollows the Grain in such Sort, that it is all Worm-eaten, very light, and has nothing remaining of what it was but a simple Skin, which, greatly diminishes its Virtues. That of Languedoc palles for the belt, being commonly large, and of a very lively Red; which is contrary to that of Pertugal, which is less esteem'd, as being smaller, leaner, and of a blackith Red,

The Alternas, or Scarles Grain, is reckoned very cordist, and proper to comfort-Women in Child-bed, giving half a Dram of it in Powder, in an Egg, and not Cachineal, as many order, because they believe these two Drugs to have the same Virtues. It is also us'd in Dying. The Spaniards, &c. who gather this, wet it with Vinegar, to kill certain little Worms that are in it, and then dry it.

It is proper here to remark the Impropriety with which this Drug is call'd Grain, or Seed;

it being no other than small Bladders, which are form'd on the Leaves and Bark of a little Shrub, well known in the Places before nam'd; for Proof of which I shall declare what the first Physician informed me of by Letter, December 22, 1694: The Kermet is not a Seed, but the Shell of a lattle Worm, which produces it by pricking the Bark of the llex or Holm Oak, on which it is frequent, and incloses itself in the Juice that flows out at the Wound, as the Worms which are the Occasion of Galls.

The Fruit of this Iles is not the Kermer, but an Acers, like those of the other llexes; and this is incontestible: So that the Kermer should not be called a Seed, but a Shell or Bludder.

### Of the Scarlet Pastel.

As to the Scarlet Pastel, which is the Powder that is found in the Grain when new, it ought to be of a very fine Red, of an agreeable Smell, and ought not to be made up with Vinegar at all, as that commonly is which comes from Pertugal, which is done to encrease its Weight, as well as to give it a fine Colour. This Cheat is easy to discover, because it will be maist, and yield a strong and very disagreeable Smell. This Pastel, which is the most noble Part of the Seed, is never us'd at all in Physick, for want of Knowledge of it; but very much by the Dyers for their high Colour.

### Of Syrup of Alkermes.

The Syrup of Alkermes is the Pulp of the fresh Kormes, and the Powder Sugar of Brasil, or the small Loaf-Sugar reduced to Powder, and mix'd together; afterwards they melt it over a gentle Fire, then put it into little Barrels made of white Wood, such as we receive it in. Great Quantities of it are made, as well at Nismes as Montpellier, which they send to most Parts of Europe.

### Of the Confection of Alkermes.

The Syrup of Kermes is very little us'd in Phyfick; but when it is incorporated into a Compofition made of the Rennet Apple, Rofe-Water, Raw Silk, and White Sugar, Powder of Oriental Pearl prepar'd, Yellow Sanders, fine Cinnamon, Azure Stone prepar'd, Leaf Gold, a thin Electuary is made of it, which we call Confection of Alkermes. Some add Musk and Ambergrease; but this ought never to be done unless by the Advice of a Phylician, as thele Perfumes are what many Women cannot bear. As to the Manner of preparing this Confection, those that are desirous to make it, may consult the Dispensatories that treat of it; but we have it ready made from Montpellier, as the best, because of the Newness of the Juice, which they have there at Command, and which they transport to other distant Parts.

But

But there are a great many Frauds impos'd upon the World, particularly in France, under the specious Name of Confection of Alkermes from Montpellier; therefore 'tis better for all Druggists, Apothecaries, and the like, to buy the Juice or Syrup uncompounded, to prevent their being otherwise deceiv'd.

Monsieur Charar, in his Dispensatory, p. 314, attributes mighty Virtues to the true Confection of Alkermes, and says, that the said Confection is, without doubt, one of the best Cordials that was ever discover'd in the Galenical Physick; for it recruits and refreshes the vital and animal Spirits, allays the Palpitation of the Heart and Syncope, very much strengthens the Brain, and other noble Parts, and is an Enemy to Corruption, preserves the natural Heat, drives away Melancholy and Sadness, and maintains the Body and Spirits in a good Condition. It may be taken by itself, or in any other Liquor, from a Scruple to a Dram or two.

The Kermes, Coccum Infectorium, Lemery. Granum & Coccus Baphica, has a thick Shell or Hulk, like the Juniper-Berry is round, fmooth, thining, of a fine red, fill'd with a Juice of the same Colour, of a vinous Smell, the Taste a little bitter, but agreeable. The Tree which produces it is a little Shrub, whose Leaves are like the Holly, but less, and more indented on their Sides with prickly Thorns: The Branches bear Abundance of Shells as well Flowers, which afterwards turn into Fruit, which grows in separate Places. The Fruit is oval, and thick, cover'd at the Top with a black Cap: The Skin of it is of the Nature almost of Leather; it contains a Kernel which is divided into two This Shrub grows in the hot Countries, Halves. as was faid before.

The Origin of the Kermes, proceeds from a Kind of little Worm in the Holme, or green Oak, on which they feed; it produces a Cod which is fill'd with Juice, and which is very red when it is brought to us. This little Infect is inclos'd in the Cod. We have had a very curious Discovery of this, from Mr. Fagon, chief Phyfician to the King; and it is confirm'd by a Circumstance, which is apparent when the Kermes is dry'd, for then it is fill'd with a vast Quantity of Worms and Flies, almost imperceptible, which convert all the internal Substance of the Berry into little Infects, and leave nothing but a light Husk or Skin behind. 'Tis easy to appprehend that these little Worms, &c. come from the Eggs which the first Worms which enter'd the Cod produc'd. To remedy this Accident, which so much concerns the good Effect of the Kermes, every one ought to let the Cods lie some Time in

Vinegar before they are dry'd, by which Means the acid Liquor will destroy those little Worms.

[Kermes is the Chermes feu Coccus infectorius. Park. 1395. Chermes, Grana Tinctorum, Coccus baphica, Coccus Infectorum. Mont. Ex. 9. Kermes five Chermes. Ind. Med. 43. It is an Infect brought to us from Provence and Languedoc, where it is found on the Ilen Coccigera, or Scarlet Oak. The Ilen Aquifolia five Coccigera. Park. 1394. Ilen aculeata Cocci glandifera. C. B. Pin. 428. Tourn. Inst. 583.

There have been almost as many and as various Opinions about the Nature of this Drug, as of the former: It has been guess'd by many to be a Vegetable, and by many others to be an Animal Substance; and not only Mr. Fagon, but since him the Count Marsigli has also endeavour'd to

prove it to be a Vegetable Excrescence.

The first who open'd a Way to the true Discovery of what it was, were Mess. De la Hire and Sedileau, in the Accounts they gave of the Green-House Bug, as we call it; an Insect of the same Kind very common on Orange-Trees: Mr. Cestori after them gave also very great Light into it; but the true and accurate Account of its Nature and Origin we owe to the same celebrated Mr. De Reaumar, who, from the Observations of other eminent Naturalists, and his own Experiments, determines it to be of a Class of Insects little understood before his Time, and which he calls Gallinsects.

The Male of this Species is also a small Fly, but the Female without Wings, and fix'd as the Cochineal to the Tree it feeds on. It is wonderfully prolifick, often containing not less than two thousand Eggs, every one of which produces an Insect in its perfect Form, and the Females subject to no Kind of Transformation afterwards.

The Confection was originally a Composition of Mesue, but has undergone many Alterations since. Our College Dispensatory has order'd it in a more simple and easy, and at the same Time a much better Way than any of the former; which is as follows: Take Rose-Water two Pound, Juice of Kermes three Pound, sine Sugar one Pound'; boil these almost to the Consistence of Honey, and then stir in the Powders of Cinnamon and Lignum Alees, of each six Drams.]

27. Of Amomum in Berry, and the Rose of Jericho.

THE Amomum Racemosum, or that in Clusters, or the Raisin Amomum, is a Kind of Fruit we receive by the Way of Holland or Marseilles. It grows in several

, fareral Perter of the Enft-India; we feldom fee it in Bunches, but much often in the lingle Pod.

It grows upon a Shrub whose Leaves are of a pale Gireen, longish and narrow; it is, in some Sort, like a Museat Grape in Colour, Size and Figure, but it is much fuller of Seed, and has less tributes in it.

lets Juice in it.

It is also particular in this, that all the Pods bising without Stalks, are strongly stuck, and as it were glued against a long Nerve, which they encircle round to its End almost, and which serves them for Basis and Support, like the Grains of Pepper: The Top is strongated by a Kind of Button, and it is generally divided into Cells.

On Opening thise Pods we find them full of

On Opening thick Pods we find them full of fourt purple Seeds, join'd and, as it were, glued to one another, making altogether a round Figure, conformable to that of the Pod, and which are cover'd with a white Fina very delicate, and divided into great. Here by a like Membrane, but in such a Manner as makes it easy to separate them: Their Taste is sharp and biting, and their Smell extremely viewing and aromatick.

Smell extremely piercing and aromatick.

Chuse the fighest send you can get, with the roundest Huil's, and of the most lively fair Colour, heavy, and well fill'd. Cast away what is light and open, containing a black wither'd Seed; but efteem those that are well fill'd with Seed, large, plump, of a warm picquant Taste, very aromatick, and the most resembling the Cardamoms: It contains a great Quantity of volatile Salt and exalted Oil.

The chief Use of the Anomum is for Treacle, fuch as that of Venice, London, &c. for which make use of the cleanest and best fed Seed. It is also used so incide, digest, result Poison, expel Wind, strengthen the Stomach, give an Appe-

tite, and promote the Menfes.

Several Persons do not know this Drug but under the Name of the great Cardamon, which is no other but the Gram of Paradise, of which I shall take Notice in the following Chapter. There are other Seeds which bear the Name of the Ammun, as that of Pliny; which is a red Fruit, and altogether like that which is within the Bruit of the Alkeling, which grows on a Shrub which is very common, There is another Sort which the Dutch and Rapids call Amoni, and we Jamaica-Pepper, which is the Fruit of an Indian Tree, as will be sent in its proper Place. I must advertise you, that which you meet with the Name of Ameuman, or amount, in Authors, you ought to use no other than this cluster'd Amonum.

All Pendons that deliver any Receipts

Lemery. concerning Amenium, mean the Amemian Raccinefum, or cluster'd Amenium,

which the Description before is given of the there are reversit other little Seeds call'd by that Name, as the American falsum, for Pseudoamonum, or the Bastard American: It is a little black Fruit of the Nature of the Geoseberry or the Juniper Reir, which grows upon a Geoseberry Bush, call'd Gressularia non spiness, sruthy nigro, or the Geoseberry without Pickles, with black Fruit, or the black Geoseberry. Tis of little or no Use in Physicks any anore than the American of Pliny.

The small Spice which the Dutch and Partugues call Amonum, and the French Paper of Theore, is round, and as big, or bigger, than Pepper; of a reddish Colour, appearing at one End like a small Crown, of a Taste and Smell like a Clove, a little pungent and aromatick; it has likewise the Virtue of the Clove, but is scarcer. Some call it the small round Clove, as is described by Baubin, p. 194, with the Name of

Amomum quorundam odore Caryophilli.

[Thus is the Anomum Racinofum, C. B. Pin. 413. Anomum norum Gardamomi vulgaris facie, five Indicus racemus. J. B. 2. 195. It is brought

to us from the East-Indies.

The Descriptions of Simples among the old Authors, particularly the Arabians, are so short and imperiest, that notwithstanding the Persection that the Knowledge of Botany is now arriv'd at, it is not known what was the true Anomur of the Antients, almost every Author having had a different Opinion about it. However, if this be not the very Amonum of the Antients, it at least comes the nearest it of all others, and ought to be used wherever Anonum is prescribed.

### 28. Of the Great Cardamome,

THE great Cordamone, which the French call Maniguette, or Grains Pomet. of Paradife, is a triangular Seed of a reddish Colour without, and white within, of an acrid picquant Taste, like that of Pepper; which is the Reason that the Hawkers frequently sell it for Pepper.

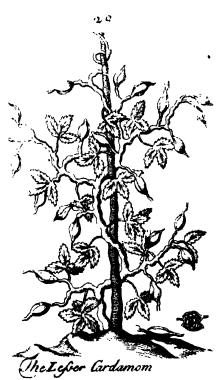
The Plant which bears this Seed, has green Leaves, among which comes a Fruit, or rather a Husk, of the Size and Figure of a Fig., of a fine red Colour, in which are enclos'd these Grains of Paradise: It is call'd Manignette, or Melaguette, from a City of Africk, call'd Melega, from whence they used to bring it into France; but at present it is brought from several Countries, by the Way of \$2. Malo, and other Places.

It ought to be chosen of a high Colour, fresh,

well fed, and of marketed piercing Take.









The Grant Paradifi are the Cardanamian Arabum majus. Gen. 1358. Cardanami genus maximum, Grana Paradifi feu Melleguetta, &cc. J. B. 2. 204. They are brought to us from Guinea, and are of a Tafte between Cardamam-Seeds and Pepper. They ought to be diffinguish'd from the true Cardamamum majus, and it is a great Error to use them in the Place of it. The true Cardamamum majus, is the Cardamamum cum filiquis longis. J. B. 2. 205. Cardamamum majus Officinarum. C. B. P. 413. This is brought us, from Java, but is very seldom seen in the Shops. The Husks are sometimes as long as ones Finger, and full of an angular brown aromatick Seed; and this is what is described by Pomei in the Beginning of the following Chapter.]

## 29. Of the true Great Cardamome, and the Small Cardamome.

THE tree great Cardamome is a reddish, sharp, angular Seed, enclosed in a Pod of the Length of a Child's Finger, made triangular; it grows upon a Plant, which some have assured me is very luxuriant. and whose Leaves are like those of the Trefoil, ending in a Point, and much indented; it grows in several Parts of India: These Pods are very rarely brought into France, and are of very little Use, because the little or smallest Cardamome is more enquired for, as well by Foreigners as ourselves, as having much more Virtue in it than the true great Sort. However, as it is sometimes met with, I shall observe that it ought to be chose new, and such as comes nearest the Taste, &c. of the smaller Cardamome.

The small Gardamone, which is what is most common among us, and brought from Holland, is a little Husk or Pod of a triangular Figure, on the Outside of a light grey, strip'd and adorn'd with a small Tail of the same Colour. When open'd, you'll find a Quantity of small Seed in it of the Figure and Taste of the Amonum, of which I have been speaking of before.

The Plant which bears the small Cardamome is as yet unknown to me, notwithstanding the diligent Enquiries I have made; but in all Appearance, it is like the true great Sort, and has no other Difference, but what the Diversity of Places where it grows gives it. It is brought to us by the Dutch and English, from the Kingdom of Visapour, where it is very scarce, and only used at the Tables of the Great, being the best Spice of that Country. Chuse the stelliest, well fed, weighty and least fill'd with empty Husks and little Straws, well dried and found: It is best not to

open the Hults 'till the Time of white the Seed, because it keeps much best in them: When they are to be used, separate them from the Huska, and chuse the most compact, best fed, highest colour'd, and most aromatick: This we chiefly use in Medicine, but the Distob use it much for chewing.

His Description of the great and lesser Cardamone differs nothing from Ponet: Lemery. But the third or least Sort is call'd sunply Cardamone for its Excellence, because it is better and most used of any of the three. It is brought to us in little triangular Husks or Pods, of an Ash Colour, tending to white; they stick or adhere together by little Fibres, but are easily divided from their curious Coverings; the Seed is then of a purplish Colour, and of an acrid, biting, aromatick Taste. All the Cardamones contain in them a great deal of volatile Salt, and essential Oil.

They are proper, particularly the least, to attenuate and refine the gross Humours, to expel Wind, fortify the Head and Stomach, assist Digestion, excite Seed, provoke Urine and the Terms, resist malignant Vapours, and to chew in the Mouth to procure Spittle. It is call'd Cardamome, or sweet Nasturtium, because it has a Smell much like the Nasturtium, or Cresse, from whence it is deriv'd.

They are used from half a Dram to a Dram in Powder, or you may make a Decoction of them in Wine or Water. Cardamome-Water is made of them, being sweeten'd with double refin'd Sugar; 'tis a very good Stomachick Water, helps Digestion, and is an Antidote against the Plague, or any malignant Disease. A Tincture drawn from it in Tincture of Salt of Tartar, is excellent against the Stone, Strangury or Stoppage of Urine. Dose from two Drams to half an Ounce.

[This is the Cardamomum simpliciter in Officinis dictum, C. B. Pin. 414. Cardamomum cum siliquis seu thecis brevibus. J. B. 2. 205. It is brought to us chiefly from Malabar. The Plant which produces the true great Cardamome is common in the Woods of Java; it grows to the Height of seven Feet; the Stalk is strong, and envelop'd by the Leaves, as the Stalks of some culmeserous Plants, but not jointed like them: The Flowers grow on the Tops of the Stalk and Branches, and are like the Flowers of our Hyacinths, white, with a purple Border round the Edge. The Leaves bruised yield a pleasant Smell, and are hoary underneath.

That which bears the lesser Cardanome has a Stalk jointed like the Reed, and beset with Leaves not unlike those of the same Plant. It is

two, or at the utenosi whree Feet high , the Flowers are of a whitish yellow, and four-less'd; after which come the Pods, which are the Cardamomuse misses of the Shops. These Flowers and Pods do not grow, as in the larger Kind, on the Tops of the Branches, but upon particular feparate Stalks, shat wife from the Root without Leaves, and that perish as soon as the Seed is ripe.]

30. Of the Nigella Romana.

THE Nigella Romana Seed is the Seed of a Plant about two Feet Poince. I Seed of a runn high, having little green Leaves indented and inipped deep, among which come white blueith Flowers, and then Hulks or Pods, in which are contain'd a longish Seed of a grey Colour, piquant Tafte, a strong and aromatick Smell.

Chuse the newest, plumpest Seed, of a fine bright yellow, of the most aromatick Smell as well as Tafte, that you can possibly meet with: That which comes from Italy is the best, and more esteem'd than that which grows among our Corn. The Use of this Seed is to kill Worms, correct Wind; and some Persons assirm it to be a very good Antidote; they reckon it likewise very useful to create Milk in Nurses.

[This is the Seed of the Gith Officin. nigella Flore minore simplici condido. C. B. Pin. 145. Melanthium Calyce et Flore minore Semine nigro. J. B. 3. 208. It is a Plant of a Foot high; the Leaves are finely divided, the Flower and Seed Vessel both large for the Size of the Plant, and the Seed Veffel is divided into five Cells. It

is very little used in Physick.]

There are feveral other Sorts of Seed, which I thall forbear to mention, because we feldom meet with them, as the Menfe, Meffe, or Munge, which the Indians wie the Plant of to feed their Hories with, and the Seed in Physick to cure Pevers, as we may see in the Indian History of Garcias ab Horto. There is another Sort, the Bisnague, as yet very scarce, which the Turks use, as several Persons of Quality in France do, to clean their Teeth. Another Kind there is, call'd China Anise, or Badian, which serves the Eastern People, in Imitation of the Chinese, to prepare their Tea and their Serbec.

This Seed is entirely like that of the Coloquintida, except that it is of a dun Colour, as that it shines and is of an agreeable Smell: It is conmin'd in small Pods, thick and hard. 'Tis with this Seed, and the Root Nife, that the Chinese make their Drink of Size and Sorbee more agree-able than in France: The Quantity is two Drams of Nife, four Ounces of boiling Water, half an Ounce of Tea, and a Dram of China Annifeed.

There are a great many other Seeds worth the Druggiff's Knowledge, as well as others; but they being to common, it would be counted fuperfluous to name them, as Lettuce, Violet, Succory, Poppy, Mallows, Turnep, Radish, Holy-

oak, Fleawort, Gr.

There are other Seeds commonly in Use, and as commonly known, as the four cold Seeds. Citruls, or Water-Melons, Gourd, Melona, and Cucumber, which are chiefly used for Emulfions, and fometimes to express a cooling Oil from them for the Skin, and other Things of the like Nature, that tend to the Ornament of the Complection, &c. The Method of making all Sorts of Oil by Expression, is so universally known, it would be lost Labour to expatiate upon it, there being no more in it than blanching the Seed, beating it in a Mortar, and preffing the Oil from it cold: After the fame Way is made the Oil of Ben, White Pine, Poppy, sweet or bitter Almonds, Pistacia Nuts, &c.

Authors have also given the Name of a Seed to a Sort of Plant which has neither Leaves or Root, which is what we call Dodder of Thyme, whose Description you will find in the Chapter of

Epithymum.

### 21. Of the Sago of the Indies.

SAGON, or Sago, is a round Seed, whitish, but a little tending to grey; it is unequal in Shape and Size, and is not bigger than the Head

of a large Pin.

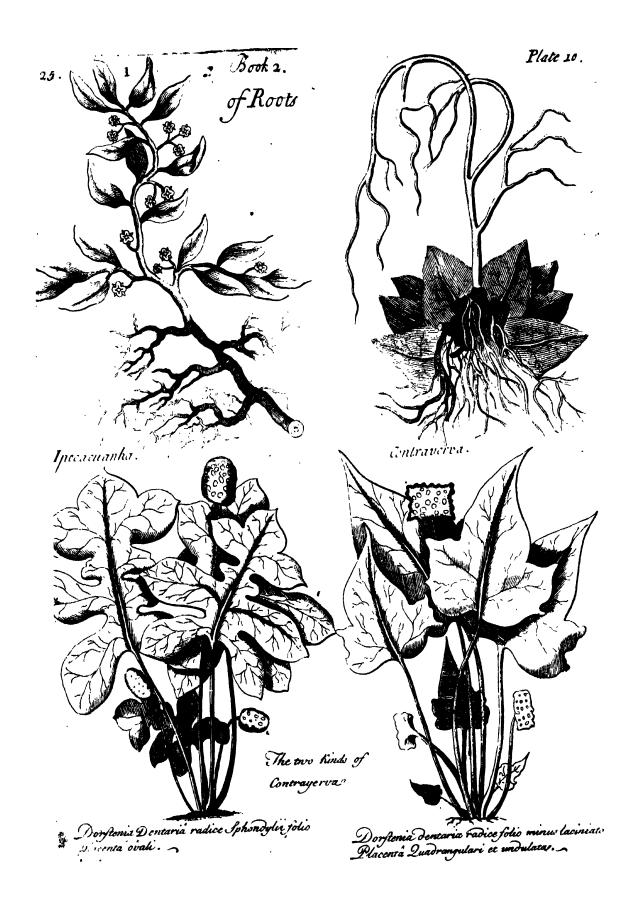
This Seed is but little known in France; its Taste is Stiptick, tending to insipid, and not unlike Piedmont Rice, or cleans'd Millet. Indians boil it 'till it is converted to a Jelly, with which they nourish themselves for a Time, and believe it has the Virtue to re-establish their

Health and prolong their Days.

It has been long in Dispute what Part of the Tree or Plant which produc'd it, the Sago really was, and many others as well as Pomet have taken it for a Seed; but later Discoveries have made it certain, that it is prepar'd from the Facula of the Pith of a Species of Indian Palm. The Palma Indica candice in annulos protubantes distincto, fractu prunisormi. R. Hist. 2. 1630. Zagu, seu arber farinisera. Jons. Dendr. 144. It is prepar'd by taking out the Pith, and beating it in large Mortars; and afterwards mixing Water with it, and straining the Liquor, the Facula of which they form into Cakes for their own Use, eating them as Bread when their Rice is scarce; and Part of it they granulate and dry, to fend into Europe.

The End of the first Book of SEEDS.

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# BOOK the Second:

# OF ROOTS

## PREFACE

Understand, by the Root, that Part of a Plant which is in the Earth, and which draws at the Nutrition, and communicates it to other Parts produc'd from thence, as the Stalk, the Leaves, the Seed, &cc. The Roots which we commonly fell, are not only many in Number, but very different in Figure and Virtue. Our Herbaris's supply us with many, which require no other Preparation than to be cleans'd and dry'd, which is sometimes well, and sometimes ill done, according to the Capacities of the Herb-Deaver; such as Enula Campana Roots. Matthemallows, Avens, and the like. We have others brought from foreign Countries; from some of which the Heart, or sincer hard Substance, is taken out, because it is stringy, hard, and useless, as Turbith, Baltard Turbith, White Dictamny, &c. as is practised here upon several Roots, as Cinquesoul, &c. We have others brought to us cut into Slices, as Julap, Mechoacan; in little Bits, as the Lesser Galingal; in larger Pieces, as Rhubarb and Rhaponic; in the entire Root, as Angelica; some adorn'd with their Leaves, as the Virginia Snake-Root; others are brought in long, stringy Fibres, as Sarsaparilla; and last of all, some are wash'd and cleans'd from their enterpard Skins, as Florentine Orris, and the like.

There is no less Dissiculty in the Knowledge of Roots than of Seeds, as well by reason of their disserent Kinds, as the several Marks which many of them have in returnen. 'Tis for this Reason we ought to be very circumspect in our Choice, and know the main Distinctions of every one, to make an exact Judgment of them, which is dissingly the dene without Practice, and where a Man does not make it his sontinual Business. These who want Roots, ought not to go about hunting for the best Bargains, but apply themselves to Merchants in whose Probity they can put their Considere, especially when the Price is any thing considerable.

Those Persons who value not their Conscience, make no Scruple at all to still one Thing for another, and ask as much for an Ounce of the Root boy deceive you with, as they would still a Pound of it fortunder its own Name; as some People sell. Tormentil for Contraverva. It is not to a Person's Advantage to load himself with a great Quantity of these Goods, especially such as there is not a large Demand sor, as well because of the Waste in keeping them, as because manifere subject to be Worm-easen, as Angelica, the Acords Verus, Sc. and to spoil, as Ringard, and the like.

### 1. Of Ipecacuanha, or mecacuana.

Pomet. HE Pacacuana, call'd Beguquella, likewife Specacuanha Cagofango, Beculo, or the Golden Mine Root, is a little Root about the Thickness of the Barrel of a middling Quill, which the Dutte and Pertuguese bring us from many Parts of America, sind of the birth is found no where but where there are Gold Mines, which has been the Occasion of one of its Names. This is gather'd by those that are condemn'd to the E Mines;

Mines; and that which makes it the fearcer, is, that the most industrious Labourer cannot get above a Dozen Pound of it in a Year; and if it were not that it is exchang'd for other Merchandizes, it would be much dearer than it is. Dutch and others bring us three Sorts of Ipecacuana, to wit, the brown, which is the first and hest Sort, and consequently the dearest; the second, which is grey, inclining a little to red, and white within, is less strong than the brown; the third is the white, of which I shall speak afterwards.

These Plants call'd Ipecacuana, as well the brown as the grey, are of a small Height, partly creeping, partly riling about half a Foot high; the Leaves of them are like those of the Pellitory of the Wall, in the Middle of them grow white Flowers of five Leaves apiece, supported by little Heads with a Sort of brown Berries, which when they are ripe, are of a reddish brown Colour, and of the Size of a wild Cherry: Thefe Berries contain a white Pulp full of Juice, in which are enclosed two Seeds, hard and yellowith, approaching to the Figure of a Lentile.

This Root ought to be chose fresh, new and well fed, wrinkled, hard to be broke, refinous in its Substance, and having a Nerve in the Middle; take care that it be not mix'd with the Stalk, Filaments, or Threads, which those that fell it oftentimes throw amongst it; and that it be of an acrid, bitter and disagreeable Taste. Some Friends that I have at Liston, in Holland, and at Marfeilles, have assured me, that the best Ipecacuana is the brown, which is chiefly that which comes from the Gold Mines, and that the other two Sorts are brought from the lowermost Parts of the Mountains thereabouts and other moist Places.

The Use of the said Root, is for the Cure of a Dysenteries; several People will have it that this Root is alexiterial; but notwithstanding that, /I would not advise any Body to make use of it, but with great Precautions, and by the Advige of understanding People, because it works with Violence, whether given in Infusion or Substance. The common Dose is from half a Dram to a Dram in Powder, taken in any proper Liquid in the Morning fasting, and giving proper Liquids two Hours afterwards.

This Root vomits before it acts as an Aftringent, which is different from the Operation of other Aftringents.

# Of the White Ipecacuana.

The White Iperacuana differs from the other two, in that the Root is white, and altogether made like the white Behen, or the white Dictamy Root, and the Leaves refemble those of the round Garden-Sorrel. The Spaniards and Pertuguese prefer this White specacuma before the two foregoing Sorts, especially for their Women with Child, and little Infants, by reason it works with tels Violence, and is commonly given in Substance from half a Dram to a Dram, and in Infulion to two Drams.

In the Month of January 1690, there was a Thesis in the Physick Schools of Paris, concerning the Brafil Rest, or Ipecacuana; in which it was observ'd, that the Americans had it in very great Esteem, as well because they believ'd it was a very powerful Antidote, as because it was very useful for the Cure of many tedious and troublefome Discases; but, above all, for the Cure of Dysenteries, and other Fluxes of the Lower

Belly.

Some will have it, that M. Helvetius, a Dutch Physician, brought the Ipecacuana into Use among the French; but I can assure you to the contrary, because above twenty Years before that I saw it at Paris; for a Proof of which I remember there was a Quantity in the Shop of M. Claquenelle, Apothecary, which fell into the Hands of M. Poulain, his Son-in-Law, who was likewife an Apothecary, and he afterwards introduc'd it again into Practice, by the Direction of Helvetius.

The Ipecacuanha, or Specacuanha, is a small Root, of the Thickness of a Lemery. Quill of a moderate Size, which is brought to us dry from several Parts of America. There are three Species or Sorts of it, the brown, the grey, and the white. The brown is the strongest and most valued of all; it is the compactest, crooked, wrinkled in Curls, stringy in the middle, difficult to break, of a smart Taste, and bitter: It grows in Brafil, &c. as faid before by Pomet.

The Root of the grey Ipscacuanha differs from the former both in Colour and Virtue, for it has less Efficacy. This is brought from Peru, by the way of Cadiz, and the Spaniards call it Bexugillo.

The third or white Sort is different from the two others, not only in Colour, but in Figure; for it is neither crooked nor uneven. Some Authors fay it is finall as Penny-royal, and that the Leaf is foft and woolly, and that the Flower is white: Others will have the Leaf like round Sorrel. It grows low, and in moist Places. The way to chuse any of the three Kinds, is to take the largest and best grown.

This Root is both purgative and aftringent; it works upwards and downwards, according as the Humours are more or less foluble; strengthens and corroborates the Fibres of the Vifcera, by means of its earthy Parts. It is one of the best

Reme-

Remedies, and most curtain, for the Cure of the Dyfentery or Bloody-Flux: It stops likewise better Scourings of the Guts, but not with that equal Success. The Dose beates into sine Powder, is from 20 to 30 Grains of the beates, into sine Powder, is from 20 to 30 Grains of the beates, from 30 to 30 Grains of the grey, and so to a Deser of the white Root. The first who brought this into Use in France, was Mansieur Le Grain, as Physician, (who had made three Voyages to showing) in the Year 1672. It was shown afterwards by the Abbot Beardels 2 and, in one of my Courses of Chymistry, I had some given me by a Druggist, but without any Knowledge or Instruction into its Qualities at that Time.

[It is the Root of the Herba Paris Brafiliana polycocers. R. Hilt. z. 669. Periclyments Accedens Planta Brafiliana fiosculis congestis albis. H. Ox. 3. 535. It is but very lately that it has been known in Phylick among us. M. Le Gres, in 1672, first brought it into France, and Mr. Cleaquenelle gave it but with very ill Success, which was owing to his giving it in too large a Dose. The elder Helverius afterwards used it fuccessfully, of whom the French King purchased the Secret, and all that related to the Use of it, and communicated it to the World. It is the best Vomit ever known in Medicine, never fatigues the Stomach, and is belide the best Medicine known in Dysenteries, in which if the first and second Dose do not produce the expected good Effects, it ought to be continued every Day in Doles of three or four Grains each, to act as an Alterative. When given as a Vomit the general Dose is half a Dram, and it operates so well in Substance, being only powder'd, that all Preparations of it are needless.

The Pseudo Specacuanna is the Root of a Species of Apocynum.] See Page 155.

## 2. Of the Contrayerva Root.

Pomet. THE Contraverse is the Root of a Plant which has green creeping Leaves, full of fmall Fibres, of the Figure of a Heart, in the middle of which arises a Stalk wholly naked, about a Finger's Thickness. It is brought to us from New Spain.

Chuse such Roots as are fresh, well sed, adorn'd with long Filaments, or sibrous Strings, that are knotty and ponderous, of a yellowish red on the Outside, and of an Ash-colour'd white within, and a sweet aromatick Taste.

It is an Alexipharmack, very powerful for refifting feveral forts of Poissons; and is therefore call'd by the Spaniards Contrayerva, which fignifies in their Language a Counter-Poison. There grows also in Perm a Root very like it, which is call a Riving Draken, from Sir Francis Draken, who brought it first into England. Notwithstanding that the Roots of the Contrayerva are an Audidon, the Leaves are a mortal Posson. It is a good Sudmission taken in Powsier from

It is a good Saderified taken in Powder from four Grains to fifteen, in any proper Liquor, and this Dofe may be repeated three or four Times if it be found necessary. It is good in Pains of the Head, and in Rheumatifins and the Sciatica.

Several People make Use of this Root reduced to Powder, and mix'd with double the Quantity of Jesuits Powder, or the Bark, to turn off the Fits of an Ague or intermitting Fever; and others again, mix the same with specacuanha, to

cure a Looiness or Bloody-Flux.

We fell also the Root of a Plant which grows plentifully throughout all France, for white Contrayeron: It likewise grows in every Garden, and is known every where by the Name of Asclepias or Hirundinaria. This is very white, and is called, by every Body in France, White Contrayeron, because it is pretended this has the same Virtues. There is a Composition of several Drugs in Mr. Charas's and other Dispensatories which is call'd the Contrayeron Stone, by Reason this Root is the Base of the whole. It ought to be chosen new, well grown, and of a piercing aromatick Taste.

Baubin makes the Contrayerus a Species of Cyperus, and calls it Long Cype-Lemery. rus with the fweet Root. You ought to chuse that which is sound, new, aromatick, and sharp in Taste. It is an excellent Alexapharmack, resists Poison, and cures the biting of Vipers, other Serpents, or any venomous Beast; and is good against Calentures, Measses, Small-spox, Spotted Fever, Plague, or any malignant and pestilential Disease. Schroder says it is good in the Plague, even when the Tokens appear: It resists, Melancholy, chears the Spirits, and makes the Heart merry. It may be given either in Powder, from half a Dram to a Dram, or in any cordial Deaught or Bole.

[The Name of Contrayurua has been at different Times given to many different Roots, supposed to have the Virtues of resisting Possons. But what we have now in England under that Name are the Roots of the two Species of the Dorstonia of Plania; which have both the same Shape and Virtues, and are gather'd and sent over indif-

ferently to us.

The one is the Dorstenia Dentaria radice Sphondylii folio placenta Ovali. Act Phil. Lond. No. 241. And the other the Dorstenia Dentaria Radice, folio minus laciniato, placenta quadrangulari, et undulata. Ibid.

E 2

Doctor Houston gather'd the first in New Spain, near Old Veta Cruz; and the other on the high

Rocky Grounds about Camputhy,

The Roots are in great Esteem in Fevers of all Kinds that can be reliev'd by encreasing the Discharges through the cutaneous Pores, and for throwing out the Small Pox.]

## 3. Of Virginia Snake-Root.

THIS Snake-Root, which is called by Pomet. some Dittany, by others, Contrayerva of Virginia, &c. is a Plant which grows there, and in several other Parts of the Northern America, and which is used successfully by the English against all forts of Poisons, and the biting of venomous Creatures; and is also very proper against all epidemical Diseases. Monfieur D'Aquin, first Physician, made choice of this Root, as one of the principal Ingredients in the new Reformation of Venice-Treacle, fet down in Monsieur Charas's Royal Galenical and Chymical Pharmacapæia. As to the Goodness of this, you ought to chuse such as is fresh and new, thick and well fed, of a strong Smell, very much like Spike or Lavender.

There are several kinds of this Root, Lomery. as the greatest, the less, and the least, together with Parkinson's Polyrrbizos Virginiana; The least only is that which is sold in our Shops, which is a small fibrous or stringy Root, of a kind of Ash-Colour, with a spicy or aromatical Smell, and a strong, hot, bitter Taste, and is brought to us from Virginia, Maryland, New Jersey, Pensylvania, and Carolina; but that which comes from Carolina, St. Augustine, and other the most southern Places of the Floridan Continent, is much the better, inasmuch as those Climes are hotter: That which is clear in Colour, clean and freest from Dust arth Sand, and very strong in the Scent, is the best. It is one of the greatest Alexitericks in Line World: It is known to cure the Biting of the Rattle-Snake upon the Spot, which, without this Remedy, is, for the most Part, present Death. The Power, Malignity, and Volatility of the Poison, is not so swift and great, but the Subtilty, piercing Qualities, and Aleripharmack Virtues of this Medicine yet exceeds it, difappointing all the ill Effects of the vipcrine Poison, if given in due Time. And, without doubt, if it will cure the Biting of the Rattle-Snake, the most malignant and dangerous of all Serpents, it will cure the Bitings of all other Serpents, as well as other poisonous and venomous Beasts whatsoever, and also the Biting of mad Dogs, and Wounds made with poison'd Arrows; for which Things it

is to be esteam's as one of the most valuable Drugs' yet discovered.

It is a known, and often approv'd Remedy against the Malignity of the Measles, Small-Pex, Spotted-Fever, and the very Plague itself; as also against all manner of Burning and Peffilmetial Fiver, not only preventing the Infection before it has spread itself, but curing the Disease after the Infection has feiz'd; for which Purpole, there is no Vegetable, or any other Remedy that I know of, equal to it, in the whole Course of Medicine. The Experience of this Part of the World may justly recommend the Virtues of this Simple every where, as good against Faintings, Swoonings, Sickness, and all Disaffections from the Heart. It is used in a Decoction by the Indians. We commonly give it in Powder from fix Grains to a Scruple; or in an Infusion in Wine, Brandy, or Water, from a spoonful to four, &c.

[This is the Root of a Species of Birthwort. The Aristolechia polyrrhizos auriculatis foliis Virginiana. Hist. Ox. 3. 510. Tourn. Inst. 162. This Plant produces the Root we first receiv'd; and therefore is esteem'd the true and genuine Snake Root: But beside it there are the Roots of two other Species of the Aristolechia sent over and used in common with it, viz. those of the Aristolechia violæ fruticoræ foliis Virginiana cujus radix serpentaria dicitur., Raii Hist. 3. 394. And of the Aristolechia pistolechia seu Serpentaria Virginiana cause no soft. R. Hist. 3. 394. both which are of much the same Shape and Virtues.

These Plants have Semisisfular Flowers.]

# 4. Of the several Sorts of Rhubarb.

THE Rhubarb of the Levant is the Root of a Plant, of which I know Pomet. not politively the true Place where it grows, any more than its Figure. For this Reafon I was oblig'd to take the Impression which is represented by Dedonaus, it not being possible otherwise to get the Figure of the Leaves, and the Manner how they are disposed. For the Flowers, I have had a good Quantity of them presented to me by a Friend.

Dalechamp, in the 558th Page of his Second Volume of the History of Plants, makes a large Discourse of the Rhubarb, and of the Place from whence it is brought to us; but he, and other Authors that write about it, speak so variously, there is nothing to be depended on; so that I shall only give you an Account of what was writ to me from Marssilles the 25th of July 1692.

"The Rhubarb comes from Persia, some say it grows there; but others will have it that it

" comes

comes from the Confines of Musicevy; the most common Opinion however is, that it grows in Persia. Mr. Tavernier, assures us, in his Book of Travels, that the best Rhuberb grows in, and is brought from the Kingdom of Boutan.

This Root, newly drawn from the Earth, is thick, fibrous, blackish on the Outlide, and of a reddish Colour marbled within: It bears large Leaves, from whence arise little Flowers, refembling Stars; after which follow the Seed. Chuse your Rhubarh new, and that which is in small, even Pieces, pretty firm and ponderous, of an astringent Taste, and bitter, the Smell not disgustful, but rather aromatick, and of a yellow Colour, bright on the Outlide, and of the Colour of a Nutmeg within, and fuch as, when infused in Water, will produce a Tincture like that of Saffron, and, when bruised in a Mortar, the Colour within is of a lively reddish Cast; but the principal Caution is that you do not buy old Rhubarb, made to look well with Powders, which we need not mention, which may be easily found out in the handling of it, as the yellow Powder will stick to your Fingers.

Great Virtues are affign'd to Rhubarb, especially for strengthening the Stomach, and purging the Gall gently, principally if affished with any other Purgative. It is esteem'd likewise very serviceable for stopping of Bloody-Fluxes, and other Loosenesses, either chew'd in the Mouth, or grossy bruis'd, and insused in any proper Vehicle: It is also given to Children to destroy Worms; and, in short, is an admirable kindly and salubrious Medicine, as well in Age as Youth, and the full Vigour of Years; in all which Difference of Age or Circumstance, duly proportion'd and apply'd, it works sriendly to Nature, and effica-

cious to the Disease.

## Of the American Rhubarb.

Within these few Years we have had several Plants of Rhubarb introduced into our Gardens, which Monsieur de Toisy, Vice-Roy of the Islands, brought from the West-Indies into France.

There are some Places where this Rhubarb grows so large, and comes so near the true Perfian Rhubarb, that it is very difficult to distinguish it. I can also assirm, that I have myse's pull'd up out of the Earth, near the Bridge at Lyons, on the River Side, several Roots of this Rhubarb; which being scrap'd and dry'd, scarce differ'd at all from the true Rhubarb.

Several Persons take this Rhubarh for the Rhapontic, because of their great Likeness, and among others Presper Alpinus, who brought it

from the Indies to Paches. The great Difference between Rhubers and Rhapontic is, that the Rhibert is generally in roundish Pieces, and has its internal Lines crofibrays; and on the contrary the Rhapantic is in long Pieces, and has its Lines reddish, and running lengthways; and as this Difference is known but to few People, those who fend us the Rhuberb, frequently put Rhupersic among it, which is the Cause that the true Rhapentir, that is that of the Levant, is so scarce; and whoever wants Rhapautic, must look for it among Rhubarb, for we receive no Rhubarb without more or less of this among it; but beside the Marks before given to know the Rhapontic from the Rhubarh by, the furest of all, is to taste them; for the true Rhubarh gives no Viscosity in the Mouth, and the Rhapontic does.

#### Monks Rhubarb, or that of the Mountains.

The Scarcity of the Levant Rhapontic has given Occasion to some ill People to sell the Roots of the round-leav'd Hippelapathum, a Plant frequently cultivated in Gardens, or of another Hippelapathum, with large but not round Leaves, found on some Mountains, in the Place of it, to People who do not understand the Difference; tho' the Distinction is easy; for the Levant Rhapontic is yellow without, and reddish and marbled within, whereas this Hippelapathum is black and rough without, and yellow without any marbling within.

Rhabarbarem, Rheum, in English Rhubarb, is a thick fungous Root, Lemery. which is brought to us dry'd from Per-

fia and China, where it grows, and sometimes from Turkey, which last is thought by the English Merchants to be the best of all, being a sort of middle-siz'd Pieces, smooth, fresh colour'd, and if a mix'd yellow Oaker Colour, of a lively strong Smell, firm in cutting, but not very hard, of crusty; being chew'd, 'tis of a bitterish subastragent Taste, giving the Spittle a fresh yellow-ish Colour, and a good Flavour, not very heavy, nor yet soungy, or hollow, or rotten within. The next Sort of Rhubarb is that which is supposed to be brought from Tartary, Muscory, and Russia, which is generally large and heavy, and more crusty, though many times very fresh and well scented, but nothing near so good as that brought from the Levant.

There are several Kinds of Rhularh, as the True, the Pontick, and the Bastard: The True is that we have already describ'd by the Name of Rhabarharum; the Word Rha some will have to come from the Name of a River in Pontus now call'd Volga; others from the Arabian Word

Raiwand:

Recognide pattern fay it came from Bertumen, a City of Listin, above the River Judge, and that Rha Jedicus and Berberican were all one. It is brought from China to Turkey, and to to Venice by Land; this lafts longer then what our Meschants bring by Sea, which corrupts fooner. It is a sport spinisher Furge, expelling therp, griping. characty, and tarturous Humours from the Sta-match and Bowels, it cures the griging of the Gues, Cholick and these Planes to a Mirade, fo that it may be allowed to be one of the boft Spocificks in the World: It cures all forts of Fluxes whatever by carrying off the Caule, and there-fore is good against the Bloody-Flux, Droply, Jaundice, green Sicknels, Richets, Melanoholy, and other the like Difeases. It is given in Powder from a Scruple or two to a Dram, and a Dram and half, or in an Infusion from a Dram to two Drame, corrected with Cinnamon, and other Aromaticks; it may be quicken'd with Scammon, Jalas, Ge. Schreder makes an Extratt of it with Endive, Success or Agrimony Water, acusted with some Drops of Oil of Tarter per Delimium. Dose of this from a Servele to a Dram. Likewise you have a squap of Succery with Rhu-harh; Schrader Lys, Rhubard is the most used of all Purges, and without Danger in all Ages, it may be fafely given to Children, and Women with Child, and is best without Corroctors, only two or three Drops of any of the effectial Oils, as Annifeed, or the like.

## Of Pontick Rhuberb.

Some Authors will have this to be the same with the former, faving only the Climate and Place of Growth, which may fomething change its Form and Goodness; others will have it to be the longer and flender Part of the Indian, because it is very like in Colour, Form and Virtue to the true Rhubarb; but not of so solid and firm a Substance as the true, which is bitter in Tage, and of an aromatick Smell, being aftringent and corroborating after Purging. This come from Ruffia and Mufcouy; as also from the Straights out of Pontus and Turkey. It is of a fresh Colour, inclining to yellow and red, but that is the best which comes nearest to the true Rhubarb, which is the Mark of Distinction you ought to chuse it by. The Virtues and Preparations are the same as the former, only this will admit of near a double Dose to the other.

# Of Bastard Rhubarb.

There are four several Kinds of this; 1st, Hip-pelapathum satundifelium, or Bastard Rhubard,

which is the great common sound leafed Dock, whose Root is greater than the Patience or Minks Rhabers, and without many Branches or Fibres thereat, yellow on the Outside, and somewhat a pale yellow within, with some discolour'd Veins therein, like to the true Rhabers, but much less than it, especially when dry, it then quite losing its fresh Colour, which the true always holdethadly, Rhabersarue Monacherum, Patientia, Mante Rhabers, or Patiens; this is the great Garden Dock, bearing the Name of Rhabers for some purging Quality therein; the Root is long, large and yellow, like the wild Dock, but a little redder, and when dried, shews a lesser Stock of discolour'd Veins than the former.

3diy, Rhaharbarum Americanum, or Rhamericomun, West Indian Rhubarb. This is called by them Rhubers, being very like to the East Indian Kind, 'tis roundiff, brownish on the Outfide, and reddish within, which being broke, has some Whiteness mix'd with it; and being chew'd colours the Spittle yellow, like Saffron, and 18 hitterish withal. The Bostard Rhubarb has almost worn out the Use of the Monks Rhubarb, it is now grown to common and plentiful; and it in indeed much the better of the two, though their Natures and Properties are much the fame : the Bastard Rhubarb works more effectually, a Decoction thereof, or Infusion in Vinegar, eases Pains in the Ear, gargling with it relieves the Tooth-sch, and the internal Use of it is good in the Jaundice, King's-Evil, to provoke Urine. expel Sand and Gravel, open Obstructions of the Spletn and Liver, and cure Fluxes of all forts. Note, this Rhubarb is to be used in double the Quantity to the true Indian. 4thly, Rhabarburum Album, or Mecheacan, of which I shall treat in its proper Place.

[The Plant which affords us the true Rhuberb, has been but lately known, and is the Lapathum Bardana felia undulate Glabro, pro Rhaberbero vero missum. Rand. We have two Sorts of Rhuberb common in the Shops; the one Oriental, brought from China, which is heavy, and mark'd with yellow and reddish Veins, of a bitter astringent Taste, an agreeable Smell, and a bright yellow Colour, and which when wetted stame the Hands with a Sastron Colour; This is esteem'd the most excellent. The other is brought from Museow; it is heavy and of a duskier yellow, tho of late that of Museowy has been better cured,

and much imported.

[Rhubarh was unknown to Diescerides and Galen, and it is an Error to confound the Rhaum of those Authors with our Rhubard; for it had a less purgative Virtue, and wanted the nice Characteristics

racteristics of Rhuberb, and was the Rhaponic, which is the Root of the Rhaponicum Thrazium. Bocc. Mus. 127. Rhaponicum filis Lapathi majeris glabro, Rha 65 Rhoum Diofesridis. C. B. Fin. 116. This is frequent in the Gardens of the Carious, and slowers in May. The Root is a weaker Purge, but a more powerful Aftringent than Rhubarb. Nothing has been more disputed among Botanifts, than whether the Rhaponic of the Antients and our Rhubarb are not the same: But it is very evident that this Plant is the true Rhaponic of Diofesrides, and that it is altogether different from our Rhubarb.]

# 5. Of Jalap.

Pomet. Plant of four or five Feet high, the Leaves of which nearly refemble those of the Ivy, but that they are not so thick; the Seed is of rhe Bigness of a small Pea, of a blackish Colour and not unlike the Myrtle Berry, but that it is not so large: According to what the Sieur Rousseau has written to me, and what I have heard from Father Plumier, the Jalap we sell is the Root of this Plant, which is of late brought us from New Spain, and which Mr. Tournesert has nam'd Solamum Maxicanum magne Flore, Semine rugoso, Jalap existinatum, which signifies the Nightshade of America, with the large Flower and wrinkled Seed, which is believed to be the Jalap.

Father Plumier will have the faid Nightshade to be a Belle de Nuit, because it entirely resembles our Species of Belle de Nuit, which we call in Latin Mirabilis Peruviana. This Plant is very common in our Gardens, and describ'd by Mr. Evelyn by the same Name, and because it only slowers in the Night it is call'd Belle de Nuit, or the Beauty

of the Night...

We ought to chuse the Jalap in large Slices, such as will hardly be broke by one's Hands, but easily by a Hammer; of a blackish Grey without, and of a shining Black within, resinous, of an acrid Taste, and take Care that it is not mix'd with Bryony Roots or the like. It contains a great

deal of Oil and Salt.

The falap fold in the Shops is brought from the West-Indies, but great Quantities of it come from the Madeiras, where it grows very common, without Culture. It is reckon'd an excellent Purger of serous and watry Humours, but must be given with Caution, according to the Age and Strength of the Patient, because it works very vigorously, if given in Substance; the ordinary Dose is from a Scruple to a Dram; but that is too large a Quantity for English Constitutions; for if it be good it will operate sufficiently from half a Scruple

to two Scriples, which will shower in the Brongeft Conflications:

The Relin or Magistery of Julap is made with Spirit of Wine, and precipitated with Water : It is a liquid Refish, white and gluey, almost like Turpentine, which, after it is dried in the Shade, looks like common Refin. It has a Smell like Scammeny, and, if rightly prepared, when thoroughly dry, is transparent, and so brittle that it will crumble betwint the Fingers. This is more valumble than the Jules Helelf, by reason it is much more efficacious, and can be easier administer'd. The Dose is about five or fix Grains, either by itself taken in the Yolk of an Egg, or added in Bolus, Pills, or the like, to make other Phylick work quicker and brilker. After the Refin, you may make an Extract, (by pouring on fresh Spirits of Wine) which will be of a brown Colour, and of the Confishence of Honey: This has the fame Effect with the former, but in a less De-

Jalap, Jalapium, Gialapa, Gelape, Gc. is a grey Root, full of Relin, Lemery.

which is brought from the West-Indies, cut into thin Slices and dried. The Plant which grows from it when in the Ground is, according to Father Phonier and Monfieur Tournefort, a species of the Belle de Nuit, which the latter calls Jalap officinarum fructur rugofo, the Julap of the Shops with the wrinkled Fruit. The Stalk grows four or five Feethigh; the Leaves are very like those of Ivy, but they are not so thick; the Flower is red as Scarlet, and fometimes changes to yellow and white, very agreeable to the Eye. This Flower blows in the Night, and closes again at the Approach of the Sun, and therefore is call'd Belle de Nuit, or the Night Beauty. It purges all Humours very well, but chiefly the watry, and therefore is useful in Dropsies, Gont, Rheumatims, and for Obstructions. All the Names belonging to this Root are taken from the Indians. There are two Sorts of this Jalap, to wit, a which, and a blackish or dark brown, which being broke shines a little. This blackish Sort is much to be preferr'd, being more resmous, and heavier than the other; the whitish has little Refin in it, and therefore not so good, and still less so, if worm-eaten. It was unknown to the Ancients, it not being long fince we had it from the West-Indies.

[Jalap is the Root of the Convolvulus Americanus Jalapium dictus. R. Hist. 1. 724. Bryonia Mechoacana nigricans. C. B. Pin. It was unknown in Europe 'till fince the Discovery of America. It is one of the best Purgatives we now have. The Resin must be given in very small Doses, from five to twelve Grains at most; and

even

even in such, if not well dissolv'd, it sticks to the Folds of the Intestines and raises great Heats and Disorders.

# 6. Of Mechoacan.

M Echoacan, likewise call'd white Rhubarh, Scammony, or Briony of America, is a light Root, white both on the Outlide and within, which is brought to us in Pieces from the Province of Mechaocan in New Spain, from which it takes its Name. There is likewise a great deal of Mechacean, according to the Sicur Rouffeau, in the Island of St. Domingo, insomuch that a Ship might be loaded with it from thence in a little Time. This Root, when in the Earth, fends forth Stalks that bear small Leaves like a Heart, of a whitish green, among which grow little Berries, which are green at first, and turn red by Degrees as they ripen. The Mechoacan is a winding Creeper, and differs little from Briony, only in the Figure of the Leaves and in Taste. The Root cut and dried cannot be distinguished from that of the Briony, but that the Mecheacan is of a Taste and Smell that is almost insipid, whereas the Briony has an intolerable Bitterness. We chuse the fairest Pieces of the Mechoacan that are white within and without, dry and ponderous, of an almost insipid Taste, and throw aside that which is dirty, thin and parch'd, and take Care there be no Briony mix'd among it, which is a common Cheat when Mechoacan is dear; but may be easily discover'd, in that the Mechoacan has its Lines thicker placed together and is of a fweet Taste, whereas the Briony is extremely bitter. It contains a great deal of Oll and essential Salt.

The Mechoacan being powder'd fine, is a gentle Purgative, and may be given in double the Quantity to Jalup. It is one of the best Medicines w have for purging watry Humours, and is to be preferr'd to Jalap, because it acts not with that Violence, and therefore may be administer'd Joth to Old and Young with Safety, in Cackexia's, Scurvies, Jaundice, or Obstructions, in Powder, with any proper Liquor, or infus'd in Winc. It is a good Hydragogue, purging watry Humours from all Parts of the Body, chiefly from the Head, Nerves, Breast and Lungs; it prevails against Catarrhs and the Venereal Disease, purges Slime from the Stomach, and is good to be given to Children against the Rickets, Kings-Evil, running Scabs and Scald Heads. You may make a compound Extract of it thus: Take Mechoacan three Ounces, Ginger two, white Turbith one, Polypody of the Oak half an Ounce; make a Tincture with Spirit of Wine, after due Digeftion, decant or strain it off clear, and add two Drams of Manna, Spirit of Vitriol five Drops, Oil of Cinnamon three, mix and make an Extract, whereof from half a Scruple to a Scruple is a good Dose.

Mechoacan, or Rhabarbarum Album Indicum, is a white light Root, which Lemery. we have brought to us, cut in Pieces and dried, from New-Spain, and other Parts of America. This Plant is a Species of the Winding-Briony, which M. Tournefort calls Brionia Americana repens folio angulofo, the creeping Briony of America, with a pointed Leaf, which is large, thin and whitish. The Flowers produce small green Berries, which grow redder as they ripen; they contain in them a sharp-pointed Seed, but are of no Use in Physick, nor any other Part but the Root.

[It is the Root of the Convolvolus Americanus Mechoacan Dictus. Tourn. Inft. 84. R. Hift. 1. 723. Brionia Mechoacana Alba, C. B. Pin. 297. It was in great Esteem among the Antients, particularly in Arthritic Pains; but since the Discovery of Jalap it is quite disregarded.]

#### Of White Briony, or the White Vine.

The Briony, or wild Vine, is a Plant which is so well known that it is needless to describe it; besides that, all Botannical Authors mention it, and that there is hardly a Garden or Hedge in the Country but what is sull of it. The Root of this Plant is so violent, when fresh, that the Peasants call it the Mad Nep, which, if they happen to est through Inadvertence, it makes them frantick, and sometimes they run the Risque of Death itself: But being dried, it is of some Use in Physick, as it has a Place in some Compositions.

The Sieur Mathurin Schille, the most famous Botanist we have had at Paris for many Ages, assur'd me that the true wild Turnep was the Briony, and that the Seed which was contain'd in the little dry Berries, was what ought to be jut into the Composition of the Venice-Treacle. Some believe the Briony to be an excellent Remedy to cure the Biting of Serpents, and other venomous Creatures.

[The Fæculæ of Briony, when dried, are like Starch; but as this is found a Medicine of little Use, there is hardly any of it now made.]

## Of Black Briony, or the Black Vine.

There is yet another kind of Briony, call'd the Black Vine, to which some have given the Name of our Lady's Scal. But as we never sell either of these two Roots, I did not think in requisite to



give you the Figures of them, and make a long Discourse upon them: But I shall inform you that the Root of this Black Briery, apply'd west upon Contusions or Wounds, prevents the Blood from coagulating and leaving a livid Spot, from whence it has obtain'd the Name of Bruise Root.

[These are the Brionia Alba and Nigra of almost all Authors; the White is never used but as an Ingredient in the Briony Water, in which it is reckon'd to affist as a powerful Userine Detergent: And the Black, though certainly a noble Medicine, is, through the Carelesness of enquiring into the Virtues of our own Plants, entirely diffegarded.]

## 7. Of Turbith.

Pomet. Turpethum, is the Root of a Plant creeping upon other Trees: The Leaves and Flowers of it are like those of Marsh-Mallows; according to the Account of many Authors, and particularly Garicas Abborto, who says the Stalk runs upon the Ground after the Manner of Ivy; that the Leaves and Flowers are like those of the Marsh-Mallow, and that the better Part of the Plant is what we call the Stalk; that it has no Taste while fresh, and is found near the Sea, in Cambaya, Surat, and other Parts of the East-Indies.

Dr. Paul Herman fays that he has feen it in the Isle of Ceylon, and other Parts of the East-Indies; that it is a great Creeper; that the Leaves are like the Marsh-Mallow Leaves, but something whiter, and, as it were, thorny; the Flowers are of a pale Red, like in Shape to those of the Bindweeds, for which Reason he calls it Convolvulus Indicus alatus maximus folio ibiseo nonnihil simile, Turbith officinarum; which signifies the Indian sind-Weed, with great Leaves like Marsh-Mallows, which is call'd Turbith in the Shops. When the Flowers are fallen off, there remains a Pod, in which are contain'd four black Seeds, roundish, of the Bigness of Pepper.

He adds, that this Plant loves moist Ground, adjacent to the Sea, and we may assure ourselves of the Truth of what this Author says, as well because he was upon the Spot himself, as because he is a Man of Probisy, and worthy our Considence. We ought to chuse such as is well clean'd; that is, such as is split in two and has the Heart taken out, difficult to break, grey on the Outside, and greyish within, ponderous, and not rotton, but full of Resin; and reject such as is white, subject to break, and Worm-eaten. Many People use the Thapsia for the Turbith; but they may be easily smough distinguish'd by what I shall say after-

wards. The Refm of this is made after the fame. Manner as that of Jalap.

# Of the White Thaplia.

The white Thapfid, or grey Turbith, is the Root of a Plant mention'd by fiveral Authors, which has Leaves like the Femile, after which grow Clusters of Rlowers, like those of Dill, which are yellow, and the Seed large, approaching near to the Seed of Femile-Giant.

This Plant is very little in Use, by reason of its violent Operation; and the Juice or Milk is so sharp, that it will take the Skin off the Face. The Root is seldom used, except by some Apothecaries, who make an ill Use of it instead of the true Turbith, though the Difference betwixt them is very considerable; for the Turbith is of a Gray, inclinable to Red without, of a white greyish Cast within, very heavy, and hard to break; on the contrary, the Thapsia is light, wrinkled, of a silver Grey on the Outside, and of a Taste so biting and hot, that it will blister the Mouth to touch it, especially when new.

#### Of the Black Thapfin.

There is another Kind of Thapfia, to which People have given the Name of the Black; but as it is not in Use in Physick I shall not describe it; and only observe, that these two Roots ought, by reason of their great Acrimony, to be placed among the violent Medicines, the Use of which is very dangerous, that Apothecaties and other Persons may take Care how they use this instead of the true Turbith.

[Both these Roots are brought from the Alps and Pyrenian Mountains. They must be chosen nw and well fed, and such as are not Wormeat n.]

There are feveral Sorts of Turbith; as, Arft, the wrue Turbith, call'd Turpethum Alexandrinum, and Verum, also Turpethu. Arabam, from the Places where it grows. This is the best Kind, and is brought to us out of Turky, being large and gummy. In the Shops are the Bark and Root without the Pith, which is sticky. In the next Place, there is the Indian, of which Pomet speaks, which is a creeping Kind, and nothing near so good as the for-Thirdly, The Pfeudo-Turpethum, or falle Turbith, which is the Root of Scammony, by fome Men fold for it. Lastly, The That flux Turbith, call'd Radix-Thapfia, which is a little whitith, and not much unlike the white Dittany Roots, or smallest Winter's Bark, brought to us out of the East-Indies and the Streights.

The

The true Turbith purges Phlegm and gross clammy Humours, and therefore is profitable in all chronick Diseases, as Gout, Dropsy, Jaundice, Leprofy, and the like: Being given alone, it is apt to cause loathing and vomiting, and therefore is corrected with Ginger, Cardamoms, Grains of Paradife, &c. It is given in Powder from two Scruples to four, but not to Children or Childbearing Women: In Infusion, from a Dram to three for a Dose, and the Extract may be made like that of Jalap. The Indian Turbith purges a little, but nothing to be compar'd to the former, and therefore is but little in Use. The Pseudo-Turpethum, or Scammony Turbith, is a great Root, and in Bigness equal to the great Briony, as also in Tenderness; the outward Bark is of a dusky Colour, and it is white within; and the inner Pith being taken out, it feems, in all Mens Judgments to be the same with the best allow'd Turbith of the Shops; but herein it differs from the true Turbith, for that is more brittle, and will more easily be broken: The Pith also in this Scammony Root is no less guminy, and full of milky Juice, than the true Turpeth.

The Thapfia Turbith, or Radix Thapfiæ, is a thick Root, black without, white within, and full of a milky Juice, of a most bitter, sharp and loathsome Taste and Smell; so that it seems to be posses'd of a poisonous Quality. The French take this Root for a Kind of Turbith, calling it Turpethum Cineritium; but 'tis said that some of them have now left the Use thereof, for that in purging it mightily hurts the principal Parts, causing often cruel Gripings in the Bowels, with Convulsions, and other ill Symptoms. It grows in Sicily, Apulia, and the Island of Thapsia, whence, as some think, came the Name.

Turpeth is the Root of the Convolvulus, indicus alatus maximus foliis Ibifco non nihil similibus que gulosis. R. Hill. 2. 1882. Horm. Hort. Lugd. Bat. 117.

[Turpethum Repens foliis althau vel indicum. C. B. Pin. 149. Turpethum verum seu Album Cleyeri. It is much of the Nature of Meccachan, but more efficacious, and yields a greater Quantity of Resin. The Dose is from half a Dram to a Dram, in Powder; and from a Dram to half an Ounce, in Insusion; but it is seldom given alone.]

# 8. Of the Arabian Costus.

Pomet. THERE are three Kinds of Costus, which are, the Arabian, the Sweet, and the Bitter; but we seldom receive any but the Arabian, which is the Root of a Shrub like the Elder, which grows plentifully in

Arabia-Felix, from whence it has its Name. Chuse the fairest heavy Roots, of an Ashen Grey without, and inclinable to Red within, not easy to break, of a strong Smell, aromatick Taste, together with a little Bitterness. It is aperitive, stomachick and antiscorbutick; taken in Powder from half a Dram to a Dram, and is also used in the Venice Treacle.

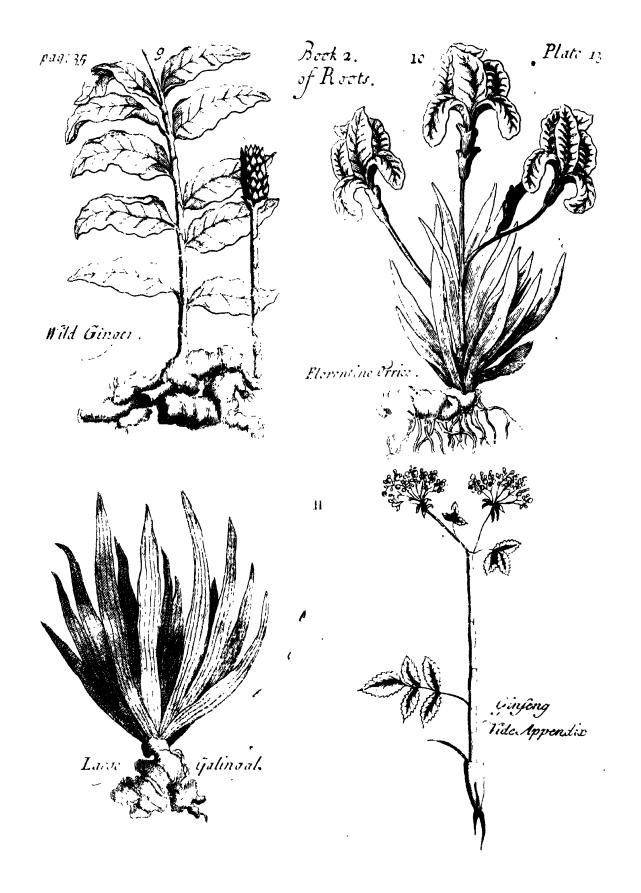
#### Of the Sweet Costus.

The Sweet Coftus is a small Root, very like in Colour, Size and Figure to the Turmerick: But since this at present is such a Rarity that it is hardly any where to be found, and the Plant it is the Root of is unknown to us, as well as that of the Bitter Costus, I have not here given the Figure of either of them.

The Bitter Costus, which some call by the Name of Costus Indicus, is a thick Root, very hard, fmooth, fhining, and rather looks like a Piece of folid Oak than a Root. This Coftus is not fo scarce as the other aforemention'd, being fometimes feen in the old Shops. We have from Italy sometimes the Roots of the Agriceynera sent us for this; others use in the Place of it the Cortex Winteranus, and others Zedoary, or the Roots of the Mentha Hortensis Corymbifera, and others Elecampane; but to avoid all these Abuses, we may very well use the Costus Arabica, as it is the best of the three, and ought to have only the Name of Costus, as we may affure ourselves that the Difference in the Sorts of Costus were only occasion'd by the different Places they were brought from, as Mr. Charas has very judiciously remark'd, who takes all the Costuses to be the Roots of the same Plant, only growing in different Parts of the World; and that it might be that the Costus growing in different Parts of the fame Country might receive fome Difference of Form and Figure, as well as Colour and Taffe, according to the Difference of the Earth from which it drew its Nourishment, as we see in Corn, Vines, &c. so that the Arabian Costus , only ought to be used in all Compositions.

Some are of Opinion there are not two feveral Species, but only one of this Lemery. Coftus, the newest being sweet, and call'd Coftus Dulcis; the same, when it grows old grows bitter, and then is call'd Coftus Amarus: that which is good is outwardly of an Ash-colour, inwardly white; and it is fresh, thick, well scented, aromatick in Smell and Taste, and not rotten: It is stomachick, hepatick, hysterick, attenuating, aperitive, discussing, good against the Cholick and Pasty, and most Diseases of the

Nerves



Nerves and Womb. Dose in Powder from half a Dram to a Dram, in Tincture from a Dram to two Drams. There is an Electuary made of it call'd *Caryocostimam*, justiful for the Intentions aforesaid, and a chymical Oil, which is profitable to be given in Classes:

It is the Root of Costus Indicus Viele Martis Odere. Herm. Mus. Zeyl. 58. Island Cua. Hort. Ind. Mal. xi. 15. Tab. 8. Which grows to fix or feven Feet high; the Leaves are of a lively Green, but something paler on the under Side than the upper; the Flowers are fourleav'd, white and thap'd like a Bell; the Fruit is three-corner'd, and divided into three Cells, containing a Number of triangular Seeds: The principal Occasion of its being divided into several Species, is, that it is white and fweet while fresh, and contracts a Bitterness in keeping and grows darker colour'd. It evidently is from the Beginning but one and the same Root; for the Description of the Thana Cua, in the Hort. Malab. which, according to Commeline, is the true Arabian Costus, exactly agrees with the Sweet Costus of our Shops. ]

## 9. Of Ginger.

Pomet. Glager is the Root of a Plant which the Botanists call Arundo humilis clavata radice acri; that is to say, the small Club Reed with the sharp Root: It represents in Shape a Sort of Foot at the End of every Root, for which Reason the Inhabitants of St. Christopher's, and the other Leeward Islands, have call'd it Patte in French, which signifies a Paw or Foot, or Gingembre. It produces several Reeds, bearing large long green Leaves, and afterwards a reddish Flower, mix'd with a little Green, the whole Head of the Flower resembling a Ciub; from whence it is call'd Ginger with the Club Flower.

This Root was brought to us heretofore from the East-Indies, but that which is cultivated in the Western Islands is more used, and much better, because they dry it with more Care, so that it is not parch'd and wither'd. Chuse such as is new, they, well sed, not easy to break, of a greyish Colour, resinous within and of a hot piquant Taste; and reject that which is soft, spungy, white within and without and worm-eaten. Ginger is hot and drying; it is used in the Theriaca and other Compositions. Great Quantities of it are used by the Hawkers and Chandlers in the Country, who mix it with their Pepper; the French reduce it to Powder, and then call it white Spice, which serves there for several Uses.

## Of Candied Ginger.

The West-Indians candy their Ginger fresh taken from the Earth; likewise they make a Preserve of it green, as the East-Indians do; from whence we have great Quantities of green Ginger. The English, Dutch, and most of the northern People, make use of this to warm the Stomach, as well as to affist Digestion, and to preserve them from the Scurvy, to which those Nations are very often

subject.

There are two Kinds of Ginger, the white or mealy, and the hard black; Lemery. but the first is reckon'd by much the best. It grows both in the East and West Indies, and is very much cultivated at prefent in the Isles of the Antilles; but the greatest Quantities come from the Leeward Islands, Barbadoes, Nevis, St. Christopher's, &c. as likewise from Jamaica and other Places thereabouts. We have now little out of the East-Indies, but what is brought thence is a Confection, call'd Green Ginger: It is very warm, attenuating, inciding, aperitive, and highly flomachick and alexipharmack; gives Ease in the Cholick, expels Wind, and is an excellent anti-afthmatick, made into an Electuary with Honey, or its own Syrup: It creates an Apetite, refists Putrefaction, expels the Plague, Poison, and all manner of malignant and pettilential Difeafes. It may be used in Powder, grated or pounded, from half a Dram to a Dram, or candied to an Ounce. Green Ginger, which they prepare in India, is likewise made in England and other Parts, after this Manner: Let the fresh Root foak two or three Days in warm Water, keeping it in a Balace all the Time; fo it will grow fort and fwell; then boil it up, either flit or whole, with refin'd Sugar, to a Syrup. The candied Ginger is made by steeping the Roots in warm Water, then cutting them into long Picces, dry them, after which candy them.

A laxative Confection of Ginger, useful for cold Constitutions, to purge off watry and phlegmatick Humours, is made thus: Take Ginger two Drams, Cinnamon, Cloves, of each a Dram, Nutmeg, Saffron, Galingal, of each a Scruple, Turbith Italf a Dram, Diagridium three Drams, Sugar four Ounces, mix and make a Confect. Dose from two Drams to half an Ounce. Another Confection to revive and fortify a cold and weak Stomach: Take Ginger in Powder fix Drams, Cinnamon two Drams, Nutmegs, Cloves, Mace, Saffron, of each a Dram, Pistachia Nuts one Ounce, fine Sugar a Pound, diffolyed in Rosewater; then mix all and beat it up to a Confis-

F 2

tence, of which take the Quantity of a Wallnut

twice a Day.

[The Plant of which this is the Root is the Iris Latifolia Tuberofa Zingiber dista flore albo. Hist. Ox. 2, 350. Zinziber angustiore folio famina utriusque India Alumna. Pluk. Alm. 317. The Leaves of this Plant are long, slender and of a pale Green; the Flowers are monopetalous, but divided into four Segments; the Seeds shap'd like a Kidney, and fastned to the Style with very slender Fibres. It is purgative, if taken in any Quantity when sresh dug out of the Earth; when dry it is aromatick and attenuant: It is found excellent in warming the Stomach and keeping the Gout from that Part.]

#### Of Zerumbeth and Zedoary.

These are two Roots of different Colour and Figure, which come notwithstanding from the same Plant, which has Leaves like those of Ginger, for which Reason some call call it Wild Ginger. Both these Roots are brought us from the East-Indies and the Isle of St. Lawrence, where they

grow in abundance.

The Zerumbeth is the round Part of the Root, which we receive cut in Pieces like Jalap. It ought to be grey without and white within, hard to break, not carious, of a warm aromatick Taste; the Zedoary, the long Part of the Root, serving as a Foot to the Zerumbeth; it ought to be about the Length and Thickness of one's little Finger, of a whitish red Cast without, and white within, well fed, heavy, and not apt to break, not wormeaten, of a warm aromatick Taste, like that of Rosemary. The Zerumbeth is of little Use in Physick; on the other hand, the Zedoary is esteem'd a good Cordial, and of great Essicacy against all Venom and Contagion.

[This is the Root of the Zedoaria Zeylarina Camphoram redolens. Herm. Cat. Hort. Lugd. Bat. 636. Zedoaria longa seu Zedoaria Officinarum. Com. Cat. Hort. Amst. 371. Mathiolus thinks the Zedoary of Avicenna to be the Anthora of the Moderns; and Dodonæus takes the Officinal Zedoary to be the Zerumbeth of Avicenna and Serapion. The Ancients had many Compositions of

this Root, which are now rejected.

The Zedoaria Longa and Rosunda, as we call them, are certainly both the Roots of the same Plant; but the Zerumbeth is a distinct Thing, the Root of a different Plant, the Zinziber Latifulum Sylvestre. Herm. Cat. 636. Kua Hort. Malab. xi. 13. Tab. 7. It grows in Mulabar; but the round Zedoary being confounded with it, makes it never seen in our Shops.]

## 10. Of Florentine Orrice.

Florentine Orrice is the Root of a Plant, whose Leaves are long, narrow, and of a fine beautiful Green; after which grow white Flowers, as I have been assured by Mr. Morin, Physician to Madam the Dutches of Guise, a Man of great Probity and

large Experience in Simples.

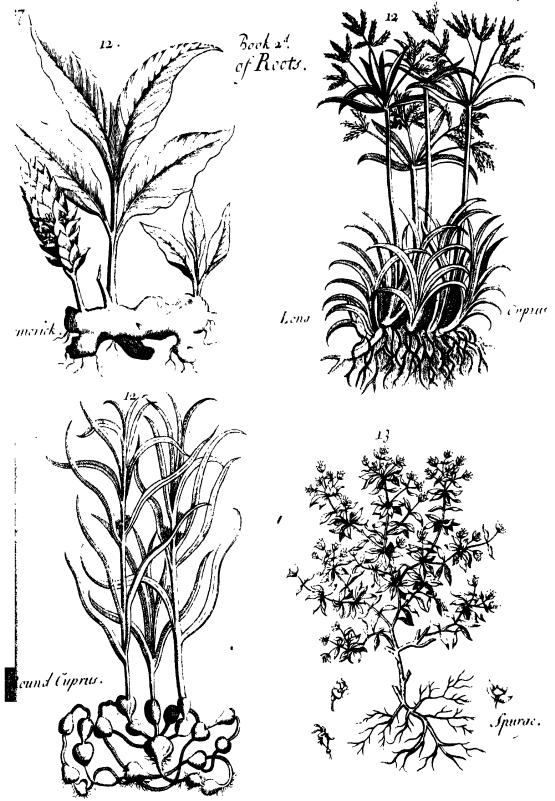
This Plant is known in France by the Name of Flower-Flag. Flower de Lys. Ge. It grows aimost every where by the Walls, Water-sides, and in the Gardens, and is of feveral Sorts, which many Authors have taken Notice of. And as to the Name Iris, they fay it was given to them for the various Colours of their Flowers, which in some measure resemble the Rainbow, call'd by some Iris; but 'tis a gross Error to say that the Florentine Iris is the fame with ours, for they are very different. Chuse such of this Root as is large, well fed, of a Piece, clean, white within and without, difficult to break, of a fweet Smell like the Violet; but cast by such as is dirty, dry, and of no Smell; likewise such as is soft or wormcaten.

The Dyers, Perfumers and Confectioners use this in their several Trades, to give a grateful Scent to their several Cloths, Perfumes, Comfits and the like. It has a great many other Qualities in Medicine; it is a Hydragague, incitive, aperitive and cephalick: It is employ'd in several Galenical Compositions, and is a mighty Favourite with the Fair Sex. There is a green Colour made of our common Iris, to which they give the Name of Verditer, which is used by the Painters in Miniature. This Verditer is made several Ways, as is describ'd in a little Treatise of Miniature, which those who desire to make this, as well as Carmine, and other fine Paints, may have recourse to.

This Orrice, call'd Iris Alba Florentina, or Iris major Alba, Illyrica vulgo, Lemery. vel potius Florentina, is a white Root, the Thickness of a Thumb, oblong, which is brought to us from Florence, where it grows without Culture; the Stalk is like that of the Flower-de-Bace, but the Leaves grow erect, and the Flowers are white. This Root, when in the Ground, is deck'd with several Fibres, which are cut off with the Outside, which is reddish, and then it is dried.

The *Illyrick* Sort of *Orrice* is reckon'd the beft, but the Roots of both are used. That brought from *Florence* is plump, round, and of a delicate fragrant Smell, like *Raspherries*. It is pestoral, and very good against Stoppages in the Breast and

Lungs,



Lungs, prevails against Coughs, Asthma's, Obfiructions of the Terms, Gripings of the Belly, Pain in the Stomach, Wind, stinking Breath. It is used outwardly in sweet Powder for the Hair, and in Damask Powder and Cypress Powder. It may be given in Powder, Tincture, Extract, Species, or the like Form, from a Dram to two Drams.

[This is the Root of the Iris Flore Albo. I. B. 11. 719. Iris Alba Florentina. Ger. 47. It is a good Medicine to attenuate the Lympha which fluffs up the Bronchia and Glands of the Intestines: It is often join'd with Hydragogues in beginning Dropsies, to scower the Glands of the Mesentery; it is also good in Asthmas, and is an Ingredient in many of our Compositions.]

#### 11. Of Great Galingal.

Pomet. THE great or large Galingal, which fome call amis the Acorus verus, is the Root of a Plant or Reed, whose Leaves are like the Orrice, and which grows plentifully in the Isle of Java and in China. Make choice of the largest, heaviest Root, reddish without and whitish within, of a warm piquant Tasse, and afterwards a little bitter, but throw away that which is almost insipid, which it never is 'till very old. This Root is of no other Use, that I know of, but for the Vinegar-makers, who use it instead of the less Sort for the making of Vinegar.

## Of the Small Galingal.

The small Galingal is a reddish Root within and without, of a piquant Taste, and very aromatick, which comes to us cut in Pieces from the Indies and China. This Root bears its Branches almost like a Shrub, and the Leaves much resemble those of Myrtle. Chuse such Roots as are best fed, of the highest Colour, and when chew'd of a bitter aromatick Taste; and take care there he no Pieces of the great Galingal mix'd, which is easily known, because the small Galingal is no thicker than a Man's Little Finger, of a more lively Colour and hotter Taste than the larger Galingal. The smaller Sort is much more used in Physick than the greater, because it abounds with more Virtue.

There are two Sorts of Galisgal, Lemery. brought to us from the Indies; the first is call'd the Great, and is a folid, heavy Root, cover'd with a reddish Bark, white within, of an acrid, and something bitter Taste. Tis a Sort of Species of the Reed, the Leaves like Orrice, the Flower white, without Smell, the Seed small, and the Whole of little or no Use in Physick.

The second Sort is the Little Galingal, whose Root is about the Thickness of a Finger, cut in Pieces on purpose to dry, that it may be fitted for Sale. It is hard, reddish without and white within, and of a Taste and Smell much stronger and more aromatick than the Large Galingal. It is cephalick, stomachick, neurotick, hysterick, and antispassmatick, sharp tasted, attenuating, opening, discussive and prevalent against most Diseases of the Head, Brain, Nerves, Womb, Stomach and Bowels. It is good against Megrim, Head-ach, Palsy, Cramps, Convassions, Obstructions, Cholick, Indigestions, Want of Apetite, Cachexia, Scurvy, &c. You may use it in Powder, Tincture, Extract, or candied like Ginger.

[These Roots are the Galanga Major and Minor of all Authors. The Greater grows naturally in Malabar, the Smaller in China; the Larger is the Root of the Banchale Indorum of Herman; the Smaller, of the Lagondi Indorum of the same Author. The Smaller, which is most in Use, is an admirable Ingredient in Bitters, and in all Compositions that answer the Intentions of

a Cordial or Cephalick.]

#### 12. Of Turmerick.

I Urmerick, which some call Curcuma and others Saffron, or Cypress of In-Pomet. dia, Malabar, or Babylon, is a Root which is yellow quite through, and produces very large green Leaves; the said anot sends forth Flowers, which grow like Ears of Corn, as may be seen by the Figure, which I have caus'd to be engrav'd from that in Herman. This little Root is almost like Ginger: It is brought to us from several Parts of India, by the Company of Merchants crading thither, and likewise great Quantities of it come from the Isle of St. Lawrence.

Chuse your Turmerick large, fresh, resinous, hard to break, and the heaviest and least wormeaten or dusty, or inclinable to be rotten, that you can get. There are a great many Persons about Paris who ask for the Red Turmerick, as believing there are two Sorts, when in reality it is nothing but the Age of it that turns it brown; when it is powder'd it shews more or less red, according as it is older or newer. This Root is chiefly used by the Dyers, Glovers, and Persumers: The Founders employ it to tinge their Metals, and the Button-makers to rub their Wood with, when they would make an Imitation of Gold. The Indians use it to tinge and give a yellow Colour to their Bread, or other Things, as we do Sastron.

[It is the Root of the Cannacorus Radice Crocea, five Curcuma Officinarum. Tourn. Inst. 367. Curcuma radice longa. Herm. Cat. 208. The Leaves of this Plant are like those of the Cannacorus, but the Flowers on a separate Stalk, four Leav'd; the Seed-Vessels small, membranacous, and tricapsular, the Seeds round and of a dusky Brown.

There are two Kinds of this Root, as of Zedoary, the long and the round, the long is most used in Physick. Its particular Use is in the Jaundice: The Dose is from twelve Grains to half a

Dram.]

#### Of Round Cypress.

The Gypress, commonly call'd Round Cypress, or English or Flemish Cypress, is a Root full of little Knots or Specks, of a brown Colour without, and grey within, of a little Sharpness in Taste, and almost without Smell when it is newly taken out of the Ground. This Root grows in the Water, and along Banks and River Sides, bearing triangular Stalks, solid and smooth; and long upright Leaves; the Flowers are small, reddish, and come by Ears or Tassels on the Top of the Stalks. Make a Decoction of this Root, bruis'd in White Wine, and after it is strain'd, drink the Wine as hot as possible. 'Tis an approv'd Remedy to cure the Cholick.

## Of Long Cypress.

Long Cypress, call'd by some Wild Galingal, is a knotty Root, wrapp'd round with sibrous Strings, not easy to break, of a brown Colour without, and grey within, of a pleasant Scent, especially when sresh, and well dried. This Root grows by Rivulets, and other watry Places, as Ditches, and the like; it bears green Leaves, which are like those of the Leek; the Stalk and Flower very much resemble the round Cypress: It is of Use in Physick, as a Cordial, Diuretick and Cephalick, a Resister of Poisons, and Expeller of Wind: The Dose is from half a Dram to a Dram in Powder, and from two Drams to half an Ounce in Insusion. But it is of much more Use to Persumers and Glovers.

Terra Merita, or the Curcumna of Lemery. the Shops is a small Roof, about the Size of that of Ginger, hard, as if it was petrified, yellow without and within; it grows in many Parts of the Eust-Indies, from whence it is brought to us died. The Plant is call'd Cyperus Indieus, and Crocus Indieus, or Indian Soffron. The Leaves are like the White Hellebore, but not so much ribb'd, but smooth. The Flower is of a fine beautiful Purple, which

is succeeded by a Fruit which is hairy, like the Green Chesnut, and which contains a Seed made round like a Pea, which is very good to eat, when it is boil'd with Meat. The Root is yellow, like Sassion, and the Indians use it to colour their Rice, and several other Sorts of Provisions: It contains a good deal of Oil in it, as well as fixed and essential Salt. This Turmerick is aperitive, detersive, proper to relieve Obstructions of the Liver and Spleen, to provoke Urine, and Women's Courses, and good in the Yellow Jaundice, Stone and Gravel, either in Powder or Decoction.

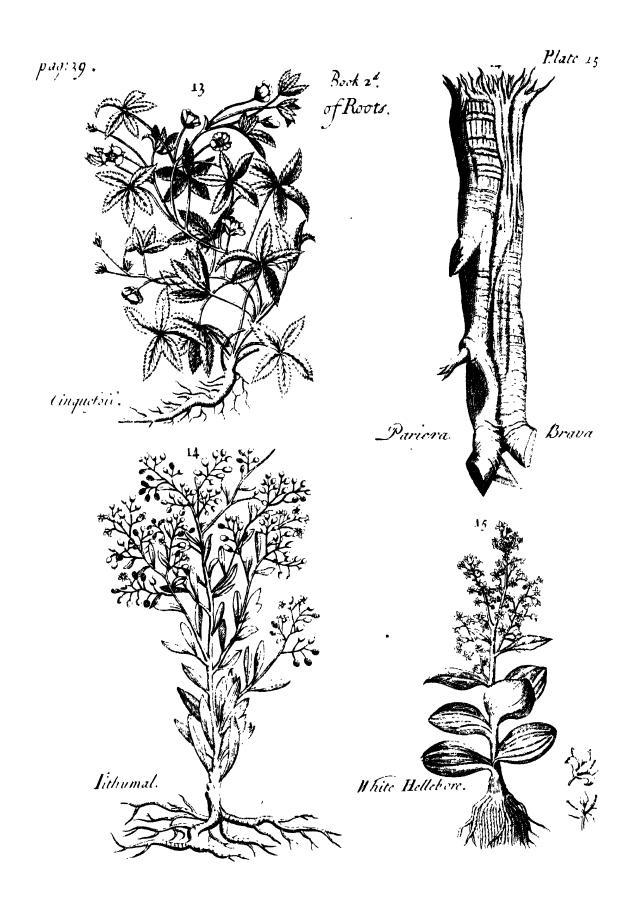
Cyperus, in French Souchet, in English Wild Galingal, is a Plant whereof there are feveral Kinds; but I shall only speak of two; and sirst of M. Tournefort's Cyperus rotundus vulgaris, or the common Sort, which is call'd the round Sort, whose Leaves are long, with the three corner'd Stalk, and Flowers on the Top like a Plume or Nosegay; after the Flowers are gone, on the Head of every Stem, comes a triangular, hard, black Seed: The Root is as thick as an Olive, of an oblong Figure, grey Colour, weak Smell,

fweet Taste, and a little astringement.

The fecond Kind is by M. Tournefort call'd Cyperus odoratus radice longa, sive Cyperus Officinarum: The sweet-scented Cyperus with the long Root, or that of the Shops. It bears Leaves like those of the Reed, and resembling in some Manner the Leek, but much longer, much flenderer, much harder: The Stalk grows two Feet high, strait without Knots, triangular, full of white Pith, bearing on their Tops large reddish Clusters, with a Seed like the former Sort, as the Virtues are in like Manner: Both long and round, being used to one and the same End and Intentions; the round is esteem'd the best, but some think the long to be full as good. They cure a stinking Breath, being chewed in the Mouth; boil'd in Oil, and bruifed, laid to the Reins or Groin, they provoke Urine; they are stomachick, hepatick, uterine, and nephritick; help a weak Stomach, cause a good Appetite and Digestion, expel Wind in the Bowels, and corroborate all the internal Parts; may be given in Powder, Tincture or Decoction. Dose from half a Dram to a Dram.

[These are the Roots of the Cyperus longus and rotundus of most Authors. The long is of our own Growth, tho' not very common; the round we have from the East-Indies, instead of which sometimes the Roots of the Cyperus rotundus nostras & vulgaris. C. B. Pin. are used, but they are less aromatick, and of less Efficacy; they are recommended as good in nervous Cases, but are but little used at Present.]

13. Of



13. Of Spurge.

Pomet.

For Source is the Bark of a final response Root, which produces narrow green Leaves, full of Milk. This Plant grows even where in France neglected, and the Roots which are fold come from Provence or Languages. Chuse such as is new, the fairest red Root without and within; which being held in the Mouth, affords a very disagreeable Taste, attended with great Acrimony. This small Root is very little used in Physick; but there is an Extract made of it which is appropriated to hydropick Cases.

Cases.
The Efula or Spurge, is a Kind of Tithymal, or a Plant which bears many Lemery. Stems, of bout a Foot high, carrying straight narrow Leaves, like those of the Pine, fill'd with Milk; the Flowers are small and graffy, the Root little and red. This grows in Fields, Lanes or Gardens, and abounds with an effential, fix'd, acrid Salt, as well as Oil. 'Tis rarely used in Medicine, because it purges violently, except in fome desperate Cases, as Dropsics, Lethargies, Phrenfies, &c. There are feveral Sorts of this Plant, all which have the like Qualities, but that which bears Leaves like the Pine is efteem'd the best. It is a sharp, fiery, corroding Medicine, and reckon'd fo dangerous as not to be used without correcting, which is chiefly done by steeping it in Vinegar, or by adding Bdellium, Tragacanth, or Mucilage of Fleabane-Seed to it. There is the greater and less Sort, both which grow in most Parts of Europe. They purge Phlegm downwards, for which they have been a counted wonderful Secrets in some deplorable and suppos'd incurable Cases. There is an Extract to be made of it, which some have used as a Kind of Parabymagogon, or general Purger.

[This is the Root of the Efula Rivini & Offitinarum Ray Tithymalus foiiis Pini forte Dioscoilis Pityusa. Tourn. Inst. 86. It is cultivated in the Gardens of the curious, but is grown quite out of Use as a Medicine.]

# Of Cinquefoil, or Fiveleav'd-Grafs.

The Root aforegoing has given me Pomet. occasion to mention another Root, in Figure and Colour very like the Sunge, which the Greeks call Pentaphyllum, the Latins Quinquefolium, and we Cinquefoil, by reason this small Root produces its Leaves by five and five on a Stem.

It is very common on the Banks of Ditches, and by Way-fides. It is very little used in Medi-

cine, and would not have been mention'd here but as it is an Ingredient in the Theriaca Andromachi:

Places, in Fields and Hedges, and flowers in May and June. The Root, which is dry, binding, and antischrifick, is used in the Shops, and given from Plant to two Drams in Powder, in all Respects as you give the Cortex, to cine Quotidian, Tertian, and Quartan Agues. It stops Fluxes of the Bowels, Catarrhs, or Defluctions nyou the Lungs, Coughs, Colds, Gout, Whites or Gonoribera in Men and Women, Sharpness of Urine, &c. An Infusion of it in White Wine, is profitable for the Rickets in Children, Obstructions in young People, either of the Spleen, Liver, or Menses, and to cure the Jaundice. Dose four or six Ounces; it may be likewise taken like an Insusion of the Bark, and to the same Purpose.

[It is the Root of the Pentaphyllum vulgatiffimum. Park. 398. Quinquefolium vulgare. Ger. It is very common, and Flowers in June and July. Schroder runs through most Chronical Distempers in its Commendation; but the present Practice entirely neglects it.]

#### 14. Of Spurge Flax.

SPurge Flax, which is call'd Thyme-læa, is a light Root, of a different Pomer: Thickness and Length, reddish without, and whitish within, woody and fibrous; of a sweet Taste at first, but after it has been chew'd in the Mouth a little Time it is caustick, and burns like Fire, especially when it is fresh.

This Plant produces green Leaves, thick and clammy, in Shape like those of Flax, with Fruit of the Size of l'epper, green at first, and of a beautiful Red when ripe, which the Latins call Coccus Gnidius, or Granum Gnidium, the Scarlet Berry. The whole Plant is very little in Use, except the Root, which is put into the Bottom of the Ear, which must be bor'd for that Purpose, to draw sharp Humours from the Head which sall on the Eyes. That which comes from Languedoc is to be preserr'd to that brought from Eurgundy.

It is be chosen new, well fed, and the least worm-eaten that may be.

The Thymelwa foliis lini, of Monsieur Tournesort, or Thymelen, with Linseed Lemery. Leaves, is a little Shrub whose Trunk is about the Thickness of a Thumb, divided into several Twigs or Branches of about a Foot and a half high, with fine small Leaves, like those of Linseed,

Limited, but larger, greener, and more viscous; the Flowers grow on the Tops of the Branches, collected together in several little white Clusters: After that comes a round stelly Berry, like that of Myrtle, full of Juice, which is red when sipe, and call'd Granum Gnidiam. This Fruit contains an oblong Seed, cover'd with a black shining Skin, very brittle, having a white Pith, of a hot siery Taste. The Root is long, thick, hard, woody, grey, or reddish on the Outside, white within, sweetish at first tasting, but very caustick and biting afterwards, abounding with a great deal of aerid Salt, and fix'd Oil.

[This is the Thymelea monspeliaca. I. B. 591. Thymelea foliis Lini. C. B. Pin. 463. It is cultivated in the Gardens of the curious. The Fruit of this Plant is now universally allowed to be the Granum Gnidium of the Shops, though Cordus and Schroder have both affirmed that the Grana Gnidia are the Berries of the Mezereon; but the Dispute is not of Consequence enough to be worth enquiring into here, as both the one and the other are now altogether out of Use.]

#### Of the Paraira Brava.

The Pareira Brava, which the InPomet. dians call Botua, is a Root we have
of late Years receiv'd from Brazil. It
is in Figure very like the Root of the Thymelæa,
but that it is blacker and closer in its Texture:
While it is in the Earth it sends up Branches like
those of the Vine.

It must be chosen fresh, such as is truly from Brazil, and not adulterated nor worm-eaten. The first who brought it to Paris was Monsieur Amelot, Embassador in Portugal, and after him M. Tournefort, who gave me a Piece, the Figure

whereof is here represented.

M. Amelot, M. Theward, of the Faculty of Phyfick, and some others, have recommended it as a Specifick for the Cure of the Stone, to be taken in Powder in a Morning salting, in White-Wine. For Choice of this, M. Theward thinks that of Mexico to be much better than that which comes from Portugal: And in a Letter which I receiv'd from Liston the 16th of October, 1692, it is observed, "That the Pareira Brava, which comes from the Indies and Brazil, is a Root so comes mon, that almost all the Apothecaries there keep it, but not many in great Quantities. It is sold at ten Testons, which is about five Livres French Money, a Pound.

[This is the Root of the Convolocilus Brostlianus flore tectra petalo monoccus. Rai. Hist. 2. 1331. Pareyra, Ambutua, Butua, overa Brutua. Ind. Med. 89. This Root is brought to us in Pieces of different Sizes; the Bark is brown and rough, when cut the inner Fibres appear circular: The Taste is sweetish, with a Mixture of Bitterness. It is said to grow in Brazil, because we have it from the Perraguent; but it has been sent also from the Coast of Malabar. It is unquestionably a noble Medicine in the Nephritick Cholick. It seems to act by dissolving the slumy Matter contain d in the Kidsays and Bladder; it is also good in Hepatick Cholicks, arising from an Obstruction of the Orifice of the Gall Bladder. The Portugueze esteem it as an Antidote and Alexipharmick, and use it powder'd for Quinceys, and Diseases of the Thorax.]

[There is another Species of it, call'd White Pareira Brava, harder than the former, and yellowish within; faid also to come from Brazil,

but it has never yet been used.]

## 15. Of White Hellebore.

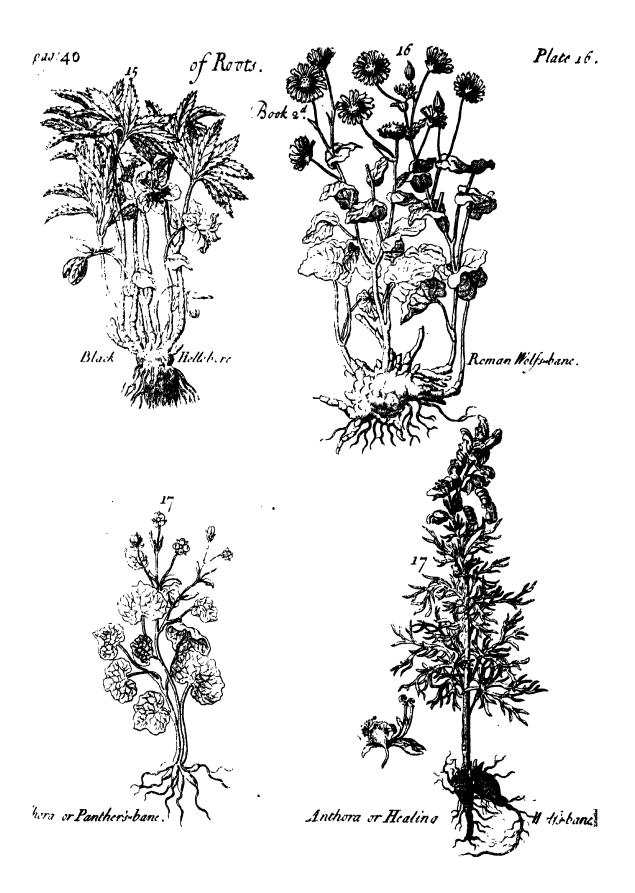
Veratrum Album, is a Plant which Pomet. grows on the Mountains of Dauphine and Burgundy, whose Root is white, with many long fibrous Strings of the same Colour; the Leaves of the Plant are large, green at first, and of a yellowish Red afterwards, the Stalks, which are hollow, bear a great many little Flowers like Stars. We ought to chuse such Roots as are fairest, full of Filaments or Fibres, yellow without, and white within, of an acrid ungrateful Taste; some value those Roots which are cleansed from the Fibres, which I do not disapprove, especially when it is to be powder'd.

#### Of Black Hellebore.

This is a dark, brown Root, full of small Fibres, black on the Surface, and grey within, from whence arise green Stalks, adorn'd with Leaves of the same Colour, indented, and Carnation colour'd Flowers like a Rose. Make your Choice as before directed: This is of much greater Use for internal Medicine than the last. This is brought us from the Alps and from the hot Countries.

The Veratrum flore fubviridi, of Tournefort, or the White Hellebore, Lemery. rifes on a Stalk of two or three Feet high, round, straight, hollow, surrounded at the Bottom with abundance of Leaves like Gentian, but much larger, more stringy, striped and plaited lengthways, soft and a little hairy; the Leaves, which are pretty high on the Stalk, are at a great Distance from one another. The Flowers grow on the Top, rang'd like long Ears, of a whitish

green



green Colour, each of which is compos'd of feveral Leaves, disposed like a Rose, to which a Fruit succeeds, in which are contain'd longish white Seeds, almost like Corn. The Root is a thick, white Head, surnish'd with a great many long Fibres of the same Colour.

The other Sort is the Hellebore, call'd by Mr. Tournefort, Veratrum flore atro rubente; it differs from the former, in that the Leaves are much narrower, folding about the Stalks, and that the Flowers are of a brown, or dark red Colour. Both one and the other Kind grow in mountainous and wild Places, especially in the hot Countries. No Part is used in Physick but the Root, which is brought dried from Dauphine or Burgundy; it contains a deal of volatile Salt and essential Oil in it.

The Black as well as White Hellehore, purges upwards and downwards, and is faid to cure all Difeafes proceeding from Melancholy, as Difaffections from the Hypochondria, Elephantiafis, Herpes, Cancers, Quartans, and all Difeafes of the Head and Brain, as Epilepfies, Apoplexies, Lethargies, and Madnefs, for which all Authors have held it a Specifick. It enters into the Composition of Matthews's excellent Pill, and may be given in Powder, alone, to a Scruple: It likewise mixes well with the larger purgative Compositions.

[These are the Reots of the Helleborus albus and niger, of most Authors. They are both common in the Gardens of the Curious.

The White is used as a Sternutatory, and mix'd in Ontments to cure the Itch: It is never now given inwardly; Boerhaave very juftly observed, That it is a Medicine much fitter for Horses than for Men.

The Black has been in great Esteem among the Antients in the most obstinate Chronic Cases. It does not operate much by Stool, but is a powerful Alterative: It almost infallible in Obstructions of the Menses, and may be often given in such Cases where Steel cannot without Danger; for the Steel and the Hellebore both promote the Menses, they do it different Ways; one by encreasing the Blood's Velocity and giving it a greater Momentum in the Uterine Arteris, and the other by dividing it and rendering it more sluid.]

## 16. Of Roman Wolfsbane,

Pomet. THE Doronicum Romanum, which we call Roman Wolfsbane, is a little Root, yellow without and white within, of a sweetish astringent Taste, attended with a little Viscosity. We have this Root brought to us cleansed from its Strings, from the

Mountains of Swifferland, Germany, Provence and Larguedoc: The Root, when it grows, is of the Figure of a Scorpion's Tail, from whence arife large Leaves, fomething refembling will Cucumber, or Plantain; this is the Reason why it is call'd Aconitum pardalianches Plantuginis folio. or Panther's-bane with the Plantain-leaf. Chufe the fairest Root, and not such as is inclinable to be worm-caten, well tafted, and when bruifed, of a good white Colour: It is believ'd that this being chew'd in the Mouth, becomes an Antidote for Men, tho', on the contrary, it is a mortal Poifon to all Quadrupeds. It is cephalick, cordial and alexipharmack, relifts Poifon, is good against the biting of venomous Creatures, and cures the Palpitation of the Heart.

The Doronicum Romanum of Gesner, or that which Tournefort calls the Do-Lemery. ronicum radice Scorpii, the Wolf's-bane with the Scorpion Root, is a Plant which bears large Leaves, Swallow-tail'd, green, woolly, and very like the Cucumber, but much less and foster; the Stalk is above a Foot high, something lanuginous, round, divided at the Top into feveral small Branches, which bear yellow radiant Flowers, like those of the Chrysanthemum, or Sun-flower; those are succeeded by little, thin black Seeds, each one having a spiral Head; every Root refembling a Scorpien. This Plant grows on the Mountains of Swifferland, near Geneva, and in several Parts of France, Germany, &c. from whence these Roots are brought dried to us. It is a proper Counter-poison, good to sortify the Spirits, and drive away malignant Discases by Perspiration, and to expel Wind, in hypocondriack, cholicky Difaffections.

[This is the Root of the Doronicum majns officinarum. Ger. 630. Aconitum Pardalianches. Mont. 35. It is kept in the Gardens of the Curious, and flowers in July. It is faid to be an Alexipharmack, &c. but is never used in the present Practice; nor indeed is to the still we are more certain of its Effects; some Authors calling it a Good Medicine, and others a Poiton, which indeed is the most probable. The Doronicum Plantaginis folio, is another Specier, c.ll'd also the Doronicum minus off. but as neither are very likely to be used, the Dissinction is of no Consequence here.]

17. Of the Greater Thora, or Panthers-Bane.

THIS is a Kind of Plant which grows no where but on the high Mountains, and is call'd Thora Major,

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Welf or Panishr-Bane: It is a Root divided into Lumps, or Clads, like the Ranunculus. The Leaves are almost round, indented about, and supported by tender Pedicles; the Stalks are not above seven or eight Inches high, branched at top, and adorn'd with certain yellow Flowers, composed of sour I eaves, among which stands a small Cluster of Seeds, like those of the Ranunculus; and when the Flower is gone the Seeds grow to the Shape of those of the common Ranunculus. The suice of this Plant is used to posson Flesh with, for the Destruction of the Wolf, the Fox, and other rayenous Beasts.

This Plant is call'd Thera, which fig-Lemery. niftes Corruption, because it is venomous: According to Tournefort, it is the Rananculus Cyclaminis Folio, Asphodeli radice. This is a Kind of Ranunculus, or a Plant which from the Root produces two or three Leaves that are almost round, like those of the Cyclamen, but near as big again, indented on the Sides, fibrous. tied by Stalks, which bear them about half a Foot high, or more: The Flowers grow on the Top like a Rose; the Seed is Swallow-tail'd and flat; the Root is like the Asphodel, and yields a great deal of acrid corrosive Salt and Oil.

[This is the Root of the Thora Valdensis. Ger. Emac. 966. Thora folio Cyclaminis. J. B. 3. 650. It is kept in the Gardens of the Curious, but is not used in Physick, being esteem'd a Poison.]

Of the Anthora, or Healing Wolfs-banc.

The Anthora, according to Monsieur Pomet. Tournefort, is a Species of the Aconite, though this is a Counter-poison to such as cat the Root of the poisonous Acouste, or deadly Wolfs-bane. It is for this Reafon Baubinus calls it Aconitum Salutiforum, the Healing Aconite, or Anthora. The composed of two short wedge-like Roots, very bitter, white and fleshy within, but brown on the Outlide, and deck'd with abun-The Stalk arises about two dance of Fibres. Feet high, furrounded with Leaves resembling those of the Larkspur; the Flowers grow about the Stalk like an Ear of Corn, they are yellowish, and like a Head cover'd with a Helmet; the Seeds are black, wrinkled, and grow in Sheaths, or membranous Cells, five or fix of them to-The Root of this is a good Antidote: The Pealants who gather this on the Alps and Pyrences, use it with Success against the biting of mad Dogs, and to cure the Cholick; they take it for a fovereign Remedy for those who eat the Thora, or deadly Aconite.

The Aconitum Salutiferum, is call'd Anthora, quali Antithera; because this Limery, is reckon'd a Counter-poison to that call'd the Thora, which is a Sort of Ranunculus, or Crowfeet. This Anthora is of the Species of the Aconite, or deadly Wolfishame, as described fully before by Pamet. The Root is useful in Physick, as being alexipharmack, cardiack, stomachick, and good against the Wind-Cholick: It contains a great deal of volatile Salt and essential Oil.

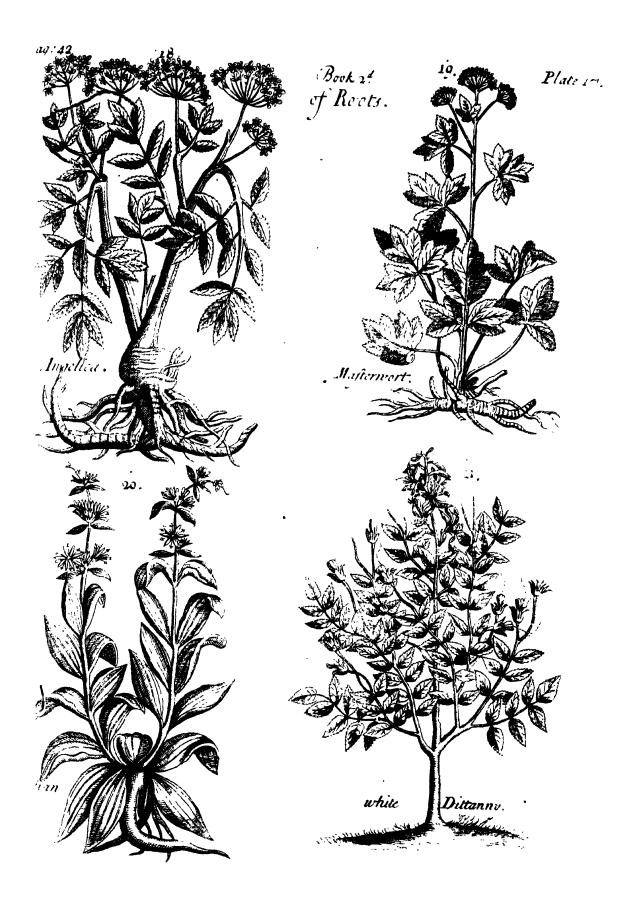
[This is the Root of the Anthora free Aconitum Salutiferum. Ger. 820. Antithora flore luteo aconiti. I. B. 3. 660. It is cultivated in the Gardens of the Curious, and flowers in June. The Root is of a dusky Brown without and whitish within, of an acrid Taste and unpleasant Smell; it is accounted a Cardiack and Relister of Poison, and is an Ingredient in the samous Orvietan, and is thought to have the same Virtues with the Contrayerva; but is at present very little used.

#### 18. Of Angelica.

Angelica is a Plant which grows plentifully in Bohemia, Spain, Italy, Pomet. France, England, and most Parts of Europe, and is so well known, it would be need less to describe it. The Seed is much us'd to make Angelica Comfits, and the Stalk makes a very good Sweetmeat candied. The Root is feven or eight Inches long, of an odoriferous Smell, and aromatick Taste, flexible, and, if new and fresh, breaks white within. It grows in all our English Gardens; yet notwithstanding some is brought us from Spain and Germany. Take Care of buying the Roots of Meum, or Spignel, which are formetimes offer'd to Sale instead of it to ignorant Perfons. It is cordial, bezoartick, and alexipharmack, heats, dries, opens, attenuates, and caufes Sweat, refiffs Poifon, and cures the Bitings of venomous Creatures. A Spirit of it chears the Heart, and revives the Spirits to a Miracle. The chymical Oil operates more powerfully than any of the former, to all Intentions. Besides which, it provokes the Terms, expels the Birth, results Poison, helps Suffocation of the Womb, cures Palfies, Apoplexies, Convulsions, Cramps, and Rheumatisms. It ought to be chosen in fair large Roots of a dufky Colour without, and white within, and not Worm-caten, of an agreeable aromatick Taffe, with a little Bitterness.

This Root, whose Plant is so vulgarly known, grows best in a fat Soil, Lemery, where the Ground in full of Moisture. It is brought ready dried to us from several Parts,

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but the best is that from Bohemia, and then what is brought from England; of a sweet Smell, and aromatick Taste, that overcomes the bitter, being loaded with a highly exalted Oil and volatile Salt. It is cordial, stomachick, cephalick, aperitive, sudorifick, vulnerary, resists Poison, is us'd in the Alague and malignant Fevers, and for the Biting of mad Dogs.

[This is the Root of the Angelica Sativa, of most Authors; it is cultivated in Gardens, and flowers in June: It is a warm, fragrant, and aromatick Root, much esteem'd as a Carminative and Cordial, and is an Ingredient in many Com-

politions.

## 19. Of Masterwort.

Imperatoria, Magistrantia, or MaPomet. Isterwort in English, is the Root
of a Plant which has large, green,
indented Leaves, after which grow Clusters of
white Flowers, succeeded by a small Seed, like
that of the Angelica. Chuse such Roots as are
fair and fresh, hard to break, of a brown Colour
outwardly, and greenish within, of a strong Smell,
and aromatick Taste: Those that grow in Auvergne, and other mountainous Parts, are preferr'd
to those of the Garden. The same Virtues are
ascrib'd to this as to Angelica. Its Name of Imperatoria was given it partly for its excellent
Qualities, and partly because an Emperor made
the first discovery of them.

Master-wort, Imperial-wort, or the Imperatoria major of Tournefort, is a Lemery. Plant whose Leaves are large, rang'd three and three along the Side of the Stalk, ending in a fingle Leaf; they are stiff, hard, and divided each into three Parts, indented on one Part lightly, on the other deep. They rife among the Branches all along, which mount about two Foot high, dividing themselves into Wings, which carry upon their Tops Clusters of Flowers of five Leaves form'd into a Rose, succeeded by little Sceds, which are flat and almost oval, little larger than those of Dill; streak'd lightly behind, and of a white Colour. The Root is sometimes of the Thickness of one's Thumb, wrinkled, hard, and entangled in Fibres, fill'd with a white, aromatick Substance of an acrid piquant Taste, hot in the Mouth, and a little bitter.

This Root being hot and dry, attenuates, opens, digefts, strengthens, is sudorifick and alexipharmack, is used against Poisons, malignant and pestilential Diseases; causes Expectoration, cures a stinking Breath; relieves Diseases of the Head, as Vertigoes, Apoplexies, Palsies. A Decoction of it in Wine, us'd as a Gargle, cures the Tooth-

ach, drys up Rheum and Catarrhs, and is good to bathe with in the Gout: A Saline Tincture is much better than the Docoction to cure the Itch, and dry up feabby and feald Heads: An Ointment of it made with Hogs Lard and Turpentine, heals old Sores, Ulcers, and all foul, leprous, and malignant Scabs.

[It is the Root of the Imperatoria major, C. B. Pin. 156. Imperatoria feve Astrontia Vulgaris, Park. 942. It is a good Medicine in many Cases, particularly Jaundice, Cachexies, and Dropsies; because it promotes the Secretions by Urine, as well as by the Skin, but is not so much used in

the present Practice as it deserves.

#### 20. Of Gentian.

GEntian is a Plant so called from King Gentius, who first discovered Pomet. its Virtues. It grows plentifully about Chabli in Burgundy, and other moist Places in several Parts of France, especially about the Pyrenees and Alps.

The Root, which is the only Part of the Plant that is fold, is sometims as thick as one's Arm, divided into feveral Roots, of a Thumb, or Finger's Thickness, yellowish, and of an intolerable Bitterness; the Leaves in some manner resemble those of Plantain, and grow two and two upon every Joint of the Stalk; they are smooth, green, pale, and ridg'd Lengthways with Nerves, which stand pretty high, particularly on the Underside. The Stalks are strait, strong, of two or three Feet high, deck'd with yellow Flowers in June, which are dispos'd in Rings, in the Joinings on of the Leaves. Each Flower is of one Piece, divided into five Parts, very narrow, and sharp pointed: The Style, which is in the Middle, produces a Capfula, in which are enclosed several round Seeds, but very flat, which are ripe in July.

Chuse such as is of a middling Size, sresh, well dried, because it wastes considerably in drying, and that which is freest from small stringy Roots and Dirt; it is much recommended, being powder'd and mix'd with the Theriaca, for the Bite of Mad Dogs. Take Care also that it be not dried in an Oven, which you may easily distinguish, because such will be black within; but, on the contrary, that which is dried in the Air, will be of a Gold-colour'd Yellow. This Root is reckon'd useful to relist Poisons and the Plague; and therefore is properly mix'd in the great Compositions: It is sudorifick, and given with Success in Intermitting Fevers; for which it has receiv'd the Name of the European Kinquina, the same Name as is given to the Peruvian, or Jesuits Bark.

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This is the Gentian describ'd by Lemery. Ray, in his History of Plants, call'd Gentiana vulgaris major Ellebori albi Folio: The larger common Gentian, with the the History Leaf. The Plant is sufficiently describe the Rose's wrinkled when dry'd, and the transfer from his former Size. It grows the resultance of the Mountains of the Alps, the Ferminian and his Englishy, abounding considerably in Alland ellering Salt. The whole Root is shown a before than that which is slit; and it is likewise transfer the good Quantities out of Germany. It is her and try, pectoral, alexipharmick, anticorbusick, opens Obstructions of the Lungs, results Posson, and is good against all Diseases proceeding from Putresaction, as Measles, Small-pox, Plague or Pestilence: It cures the Scurvy, and is beneficial against Cachexies, Dropsies, Jaundice, Ulcers of the Bladder, Sharpness of Urine, &c. May be given either in Tincture, Insuson, Decoction, or Powder. Dose, a Dram of the Powder.

[It is the Root of the Gentiana major lutea, C. B. Pin. 187. Gentiana vulgaris major Elleborialli Folio, I, B. 3. 520.—It is cultivated in the Gardens of the Curious, and flowers in June. The Root ought to be gather'd in September. It is extremely bitter, but leaves rather an agreeable than a naufeous Gust behind it. It deservedly stands at the Head of the Stomachick Class; and is the best Ingredient we know of in Bitters. It is recommended in many other Intentions, but is only used in this in the present Practice.]

# 21. Of White Dittany.

WHITE Dittany, or Frazinella, is a Plant whose Roots are white, finaller than the little Finger, fomething bitterish, of a pretty strong Smell: The Stalks are two Feet high, reddifh, with Leaves like the Ash, and charg'd at the Top, with large Flowers in Spikes of a whitish Red mix'd with Purple, compos'd of five Leaves, sharp pointed, and with long crooked Strings or Filaments: In the Middle of which Flower is produced a Head divided into five Capfules, in which grow black shining oval Seeds, pointed at the Ends. Chuse the plumpest Root, white within and without, and least burden'd with small Fibres, and the cleanest that can be had. This Plant flourishes in the Forests of Provence and Languedoc. The Root is \* reckon'd alexiterial, uterine, and diuretick: It kills Worms, cures malignant Diseases and Calentures. Swelfer, Charas, and most of the modern Authors, substitute the Powder of this Root for the

Farina Orobi, to make the Troches of Squills for the Venice Treacle.

Gentiana vulgaris major Ellebori albi
Folio: The larger common Gentian, with the
Albie Leaf. The Plant is fufficiently
Gentiana vulgaris major Ellebori albi
five Frazinella; C. Bispin. 222. Frazinella vulgaris, Pati 17. It scultivated in Gardens, and flowers in the Root of the Root winkled when dry'd, flowers in the North former Size. It grows of the two Training mention is by Disfrorides; the other of which is Species of the Starbas.

This Roof has had many Vierues attributed to it, but at prefent is soft transfer at Ingredient in feveral of our Compositions.

# 22. Of the Welle Carline Thiftle.

THE White Carline, call'd by fome the White Chamaleon, or little Chardon, is a Plant, the Roots whereof are not much thicker than a Man's Thumb, brown on the Outlide, and white within, from one to two Foot long, of a strong Scent, and agreeable Taste enough. The Leaves hang quite round it, lying to the Ground, of a pale Green, wav'd, and deeply indented, on each Side furnish'd with Prickles or little Thorns. The Flower grows like the Leaves, close to the Root, without Stalk, five or fix Inches broad, flat, and like a little Bason, edg'd with some narrow-pointed Leaves. The Seeds come after the Flowers; they are long, and bear a white Down at the End. Chuse your Root new, well sed, and dry, of a fweet Tafte, and aromatick Smell, and take care that no other Root be impos'd upon you instead of this, which is often done, especially when it is dear. It is one of the best Medicines against the Plague, and it is commonly receiv'd in the Catholick Countries that it was discover'd by an Angel to the Emperor Charlemain, for the Cure of his Soldiers, who were feiz'd with the Plague in their Camp; from which it took the Name of Carline, from Carolus.

The black Carline, or black Chamaleon Thissle, is like that we have describ'd; but that this rises to a Stalk, and the Leaves are of a more obscure Green. Mathiolus speaks of another Species, whose Flowers are Purple; but that is a Plant very scarce, and of no Use at all. The Virtues of the ordinary Carline are to resist Poisson, provoke Sweat, to pass by Urine, and to open Obstructions; they are likewise serviceab'e in the Plague, Dropsy, Hypocondriack Passions, and the like. This Plant grows in the Alps and Pyrenees, and the Hills of Auvergne. Both the Kinds are so common, that the Peasants eat the Roots and Heads as Artichoaks, when they are young and tender.

Carlina, in French Carline, or Chamæleon, is a Plant, whereof there are two Sorts: The first is called Carlina

acaulas

Lemery.

Book 24. of Roots.

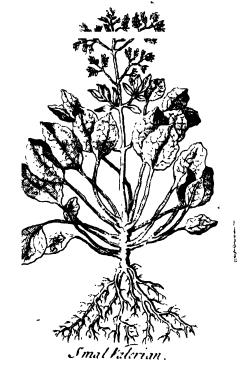
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Black carline Thirde.



"ine Thutle .



acaulos magno flore, the prickly Carline with the large to the This bears from the Root large before describ'd. When the Flower is past, there succeed oblong Seeds, each of which are furnish'd with a Quantity of white Hairs, which represent Brush: These Seeds are separated from one another by Leaves solded into a Gutter. The Root shoots direct into the Ground, sometimes two Foot deep, the Thickness of an Inch, of a dark Colour without, white within, of a strong aromatick Smell, and agreeable Taste.

The second Sort of Carline Thistle is the Chamæleon niger vulgaris, the common black Carline. This differs from the former, in that the Head is not so large, nor so much spread. It grows for the most Part only at the Top of the Stalk, which is rais'd among the Leaves about a Foot high. The Flower is commonly white, and very rarely red. The Root is not so big, or half so well fed as the white Carline; and both of them grow in the hilly Countries, as aforesaid. They take the Roots out of the Earth in Spring-time, to dry for keeping, which are afterwards used in Physick. The first Kind is to be preferr'd for that Use, as being suller of volatile and essential Parts.

[The first of these is the Root of the Carlina feu Chamalion albus Dioscoridis, Ger. 995. Carlina humilis, Park. 968. The other of the Carlina humilis, Park. 968. The other of the Carlina caulescens magno albente, Tourn. Inst. 500. Carlina caulescens magno slove, C. B. Pin. 380. The Root of the first is most commended for its Virtues; but the present Practice takes no Notice of either of them.]

# 23. Of the large Valerian.

THE great or large Valerian, which Pomct. Johannes Bauhinus calls Valeriana major odorata Radice, the great Valerian with the fcented Root, is a Plant, the Roots of which are about an Inch thick, brown on the Outfide, wrinkled in Rings deck'd with Fibres on the Sides, of a strong aromatick Smell, and very disagreeable; the Stalk is three Foot high, hollow, strait, and adorn'd at each Joint with two Leaves, opposite to each other; those which rise full from the Root are whole, the others cut on each Side. The Flowers are white, and scented like fasmine; they grow in Clusters on the Tops of the Branches, and are small Pipes, divided into five Parts, which leave behind them flat long Seeds, charg'd with a white hairy Tuft.

The little Valerian has finall Roots, of a good Smell: The Leaves which grow first are almost round and sharp at the End; the Stalk is a Foot and some Inches high, charged at each Joint with

two Leaves, cut in at the Side: Their Flowers are Purple, and refemble those of the great Valerian, but they are very small: Their Seed is the same. In Relation to the Choice of these two Roots, take the newest and best dry'd, and least charg'd with Fibres that is possible. They are both us'd as Counter-Poisons, against the Plague, for the Cure of the Ashma, Dropsy, &c. Some Authors call these Roots by the Name of Pontick Phu.

Valeriana, or Valerian, is a Plant, of which there are three Sorts us'd in Phyfick: The first is call'd Valeriana horten-

fis, or Valeriana mojor odorata Radice, by Baubinus and Ray; by Tournefort, Valeriana bortenfis, Phu folio olusatri. This bears the Stalk three Foot high, slender, round, hollow, and full of Branches, adorn'd from Joint to Joint with two Leave opposites to each other, as before in Pomet. The Flowers are white inclinable to Purple, and sweet scented. This Plant, which grows in our Gardens, is the best, and most to be valu'd of any of the Valerians.

The fecond Sort is call'd Valeriana vulgaris, or Valeriana sylvestris major, by Tournesort, the great wild Valerian; and by Ruy, Valeriana sylvestris magna aquatica, the great watry wild Valerian. This bears the Stalks a Man's Height, strait, stender, and hollow like a Reed, a little hairy. The Leaves are like those of the foregoing Kind, but more divided, greener, indented on their Edges, a little hairy without: The Flowers are disposed as the great Valerian, of a whitish Colour, tending to Purple, which are succeeded by Seeds garnish'd with Plumes. The Root is sibrous, white, creeping, of an aromatick Taste and Smell. This Plant grows in wet and woody Grounds.

The third Sort is call'd Valeriana fylvestris minor, or Valeriana minor pratensis sive aquatica, the small, wild, or water Valerian. This bears a Stalk above a Foot high, angular, slender, branch'd, hollow, carrying the Leaves by two and two, jaged towards their Edges. The Flowers and Seed are like the former; but much less; the Roots slender, crawling, and white, having a great many Fibres, of an agreeable aromatick Taste. These are dry'd in the Sun, to be made fit for Use, and are cardiack, sudorifick, vulnerary, aperitive, proper to result Poison, to fortify the Brain and Stomach, to destroy Worms, provoke the monthly Courses, assist Perspiration, and expel Wind.

[The first of these is the Root of the Valeriana major hertensis, Mor. Umb. 52. Valeriana major advata radice, I. B. 3. 209. The second of the Valeriana minor, Ger. 916. Valeriana sylvestris minor, Park. 122. And the other, mention'd by Lemery, of the Valeriana sylvestris magna Aquatica, I. B. 3. 209. The first of these is an

ingredient

Ingredient in the Theriaca, and other Composi-

tions; the other two are little regarded.

But the Valeriana filustris, now so much and so deservedly in Edgen, is the Root of a Species different from all these, and is much more valuable than them all: The Plant which produces it is the Valeriana filustris major folids angustoribus, Mor. Umb.]

# 24. Of Spignel.

MEUM or Spignel, which the Antients furnam'd Athamanticum, Pomet. from the Hill Athamas in Theffaly, where the best was said to grow, is a Root of the Thickness of a little Finger, black without, white within, long, and accompanied with a few small Roots, actid, a little bitter, and of an aromatick Smell. The Leaves are like those of Fennel, but much less, more divided, and abundantly finer. The Stalks are a Foot high, charged with some Clusters of white Flowers, compos'd of five small Leaves; after each of which come two brown Sceds, like Fennel Seeds, but bigger and more furrow'd: which has made fome believe that Spignel was a Species of Fennel or Dill, and so call it crooked Dill, or Fennel. This Root is very alexiterial, for which Reason it enters into the Composition of Venice-Treacle: It is likewise sudorifick and diuretick: The Dose of the Powder is a Dram. It is brought to us from the Mountains of Auvergne, Burgundy, the Alps and Pyrenees. Chuse such as is new, of a good Smell, and as little Worm-eaten and dufty as may be.

Meum Foliis Anethi, or the Fænicu-Lemery. lum Alpinum perenne capillaceo folio, odore medicato of M. Tournefort, is a Plant which raises its Stalk a Foot high, hollow within, and full of Branches: 'The Leaves are like Fennel, but much less, more flash'd, and almost as fine as Hair: 'The Flowers grow in Bunches on the Tops of the Branches, like Dill; and when the Flowers are gone, a Swallow-tail'd surrow'd Seed succeeds. The Head of this Root is full of long Threads, like Eryngo. You ought to chuse the longest, roundest, well fed and entire, of a blackish Colour outwardly, and white within, the Smell aromatick, and the Taste sharp and a little bitter; it contains an exalted Oil, and a volatile or essential Salt.

[This is the Root of the Meum vulgatius, Park. 888. Meum Foliis Anethi, C. B. Pin. 148. It grows in Meadows and Pastures, and flowers in June. It is esteem'd an Alexipharmick, and has a Place in seme Compositions, but oth rwise is little used. There is another Species of it call'd Mutellina in the Shops, which is the Meum Alpinum umbella purpurascente, C. B. Pin 146. It is supposed to have the same Virtues with the sormer, but is now never used.]

#### 25. Of Tormentil and Bistort.

THE Tormentil used in Physick, which C. Baubinus calls Tormentilla sylvestris, Wild Tormentil, is a
Plant, whereof the Root is lumpish, of an Inch
thick, brown or reddish without, astringent and
sibrous. The Leaves are like Cinquesoil, smooth,
shuring, six or seven at a Joint. The Stalks are
low, short, branch'd, charged with several Flowers,
of sour yellow Leaves each; after which comes a
Cluster of small Seed.

The best Tormentil Roots come from grassy, wet Places about the Alps and Pyrenees. They use these in alexipharmick Compositions, as sudorifick. They are likewise used for the Bloody-Flux. Chuse the newest and best dry'd, from the hot Countries, which are better than what

grow in our Gardens.

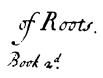
Bissort is a Plant that has a Root an Inch thick, crooked, and roll'd upon itself, with annular Foldings, brown without, and sless-colour'd within, trimm'd with many harry Fibres, and of an aftringent Taste. The Leaves are like those of Wild Patience, of a lively green without, and a Sea-green on the Inside. This Plant is in Flower towards the End of May, adorn'd with several Leaves along the Stalk, smiller than those which rise first from the Root. The I k wers are of a Flesh Colour, crowded together in a Spike, but very short and very thick; after which comes a three-corner'd Seed. This Species is call'd by G. Baubinus, Bistorta major radice minus into ta, the larger Bistort with the less winding or crooked Root.

Tormentil is a Plant of two Kinds: The first is call'd Tormentilla, by Ray; Lemery. Tormentilla sylvestris, by Tournesort; Iloptaphyllum, by Fuchsius, by teason it bears seven Leaves on a Stalk, as the Cinquesoil does sive. The Flowers are compos'd each of sour yellow Leaves, in Form of a Rose, supported by a Cup cut and divided into eight Parts, sour larger and sour smaller placed interchangeably. The Root is knotty and unequal, and delights to grow in Words and shady Places, or others well supply'd with Moissure.

The second Sort is call'd Tormentilla Alpina major, or Tormentilla Alpina vulgaris major, by Tourn fort, the common larger Alpine Tormentil: This differs from the former, in that the Leaves are larger, and the Root thicker, more plump,

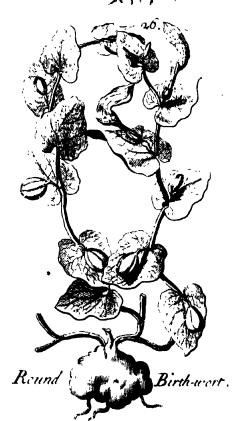
redder.

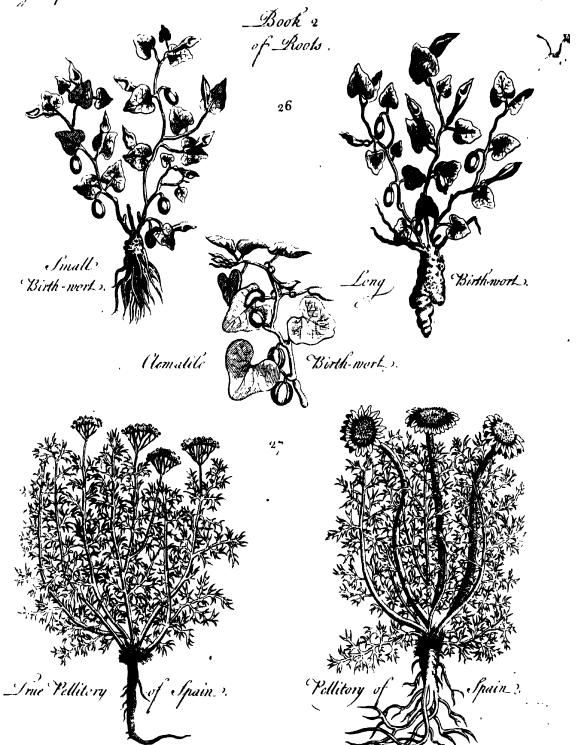












redder, and fuller of Virtue. We have this brought to us ready dry'd from the Aps, &c. The Way to chuse it, is to take the newest, best fed, about an Inch thick, clean, of one Piece, stree from the Strings, well dry'd, of a brown Colour, raddish within, and of an astringent Taste. It is binding, vulnerary, proper to stop Loosenesses of the Belly, Hemorrhages, Vomiting, Whites or Reds in Women, and to resist Insection: It is mix'd with cardiack and alexipharmick Medicines.

Bistert, as if you should say twice distorted, because the Root of this Plant is commonly turn'd and wound about itself: They give it the Name of Bistort, Colubrina, Serpentaria, and Dracunculus, by reason that this Root is twisted like a Serpent: 'Tis also call'd Britannica, from growing so frequently in England. There grow, towards the Bottom of the Flower of some Biflorts, feveral Knots or Excrescencies, which some Authors have call'd Fungi Bistortæ; but they are a Sort of little Roots, which produce e ch of them a Plant. It is cold, dry, aftringent, and flops Fluxes of the Bowels, Vomiting, and Abortion, and dries up Catarths. It is given in Powder, Infusion, or Decoction in Wine and Water, and is good in a Gonorrhea, or Whites in Wemen.

The To mentil is the Root of the Tormentilla sandy ris, Park. 394. The Tormentilla sylvestris, C. B. Pin. 326. It is common in Woods, and slowers in June. Tis an Astringent and Alexipharmack; it is a good Addition to the White-Drink, which it changes to a fine red, and encreases very much its Virtue; it is also a good Ingredient in many other both officinal and extemporaneous Compositions.

The Biftort is the Root of the Biftorta Radice minus interta, C.B. 192. Biftorta major, Ger. 122. It grows in many Places in England, in damp Meadows. It is a good Medicine in all Kinds of Fluxes and Hemorrhages, and is faid

also to be a good Alexipharmick.]

### 26. Of the Aristolochias, or Birthworts.

Ponet. THERE are three Sorts of Birthworts generally fold, viz. the long, the round, and the small: There is a sourth Sort, which is the Aristolochia elematitie, or Saracens Birthwort; but as we make no Use of the top we shall not say much about it.

The round Birthwort is a tuberous, fleshy Reat, of different Sizes, to two or three Inches Dean ter. They are uneven and irregular, that is to say, commonly much larger at the Bottom than at the Fop. This Root is of an intolerable

Bitterness, yellow within, brown without, but not disagreeable in Smell, and furnish'd with some flender Fibres: Several Stalks arife from the upper Part, which fpring above a Foot high, befer alternately with almost round Leaves, sticking to and embracing the Stalk at the Bottom, cut into two Ears, or Swallow-tail'd: The Flowers grow at the fetting on of the Leaves; they are yellow fireak'd Pipes of an Inch and a half long. hollow and flat like an Ox's Tongue, of a very deep red, which almost comes up to a Soot-Colour; they are without Smell. The Speds are black, very small and flat, almost triangular, and are enclosed in a small membranous Fruit, green in the Beginning, brown when ripe, and divided lengthways into fix Cells.

The Long Birthwort is a Root like the Horse-Radish, but a great deal thicker and longer, sleshy, brittle, brown without, yellow within, very bitter, and something fibrous: The Stalks are longer than those of the round, bending to the Ground, beset interchangeably, with Leaves not altogether so round as the former, and which are supported by a small Stem. The Flowers are nearly like those of the round, but the Fruit is of the Figure of a small Pear, which likewise contains in its Cells very slat, black Seeds.

The Roots of the Birthwort, which J. Banbinus call'd Ariflolochia Polyri bizos; and C. Baubinus, Ariflochia Piftolochia dieta, are the least of all. They are composed of an infinite Number of small yellow Fibres, sticking to the same Head, hairy, very bitter, and of a good strong Smell. The Stalks are weak, slender, bending to the Ground, interchangeably deck'd with very small Leaves, which are paler than those of the others, in Form of a Heart revers'd, and supported by very slender Stalks, bearing also Flowers like the round Kind, but much less, yellowish, mix'd with a sooty Colour. This is the Birthwort we sell for the small Sort.

The Clematite, or Saracen Birthwert, has fibrous Roots, very bitter, and of a Smell agreeable enough: The Stalks are two or three Feet high, strait, firm, and stronger than the former, furnish'd interchangeably with very large Leaves, of the Figure of a Heart, of a pale green Colour, hanging upon long Stalks. The Flowers stand at the joining on of the Leaves, after the same Manner as these of the other Kinds, but much less, and of a pale yellow. The Fruit, on the contary, is larger, oval, and divided into fix Cells, tall of very 1 at Seed, which is tringplar. Paulinus calls this Species Ariffelochia Cumatitis

All these Kinds grow in the Fields and Vineyards of Province and Languedoc, except the Sm. II Small Birthwort, which loves the Woods, the Olive-yards, the dry and rocky Hills of the fame Countries; it is also more aromatick and stronger. Messieurs Rondelet and Charas, with good Reason, preserr'd this Birthwort to the Saracen Kind, scr Venice-Treacle. All the Sorts open Obstructions, and are purgative. They are used every Day with Success, in Decoctions, Injections, Lotions, detersive and vulnerary Draughts, and the like.

The Birthworts ought to be chosen dry and well fed, especially the Round and the Long; heavy, yellow within, grey and smooth without; and the small one, which has little Use, except for the Theriaca, should be in fair Roots, something like those of Black Hellebore, well sed and new.

Aristolochia, or Birthwort, is a Plant, Lemery. of which there are four Sorts generally used in Physick: The first is call'd Round Birthwort, which is distinguish'd into two Sorts, one call'd Aristolochia rotunda vera, or Aristolochia rotunda flore ex purpura nigro, the Birthwort with the black purple Flower. It bears several Stalks, weak and pliant like the Vine Branch, about a Foot and a half high. The Root is tuberous, round, pretty thick, sleshy, sibrous, grey on the Outside, and yellow within, disagreeable to the Smell, and of a bitter Taste.

The second Kind of Birthwort, call'd round, is the Aristolochia rotunda store ex albo purpurascente, the round Birthwort with the white purplish Flower. This differs from the other, in that the Stalks are more numerous, but shorter; and the Leaves much larger, oblong, and hanging upon longer Stalks; that the Flower is of a white Colour, inclining to purple, brown on the Inside; and that the Fruit is longer, more like a Pear; the Seed less, of a red Colour; and the Bark of the Root yellow. This Plant grows among the Corn in the Fields.

The next Sort of Birthwort, call'd Long, is of two Kinds; the first call'd Aristolochia longa vera, or Aristolochia altera, radice pollicis crassitudine, or the other Kind of Birthwort, with a Root the Bigness of one's Thumb. It bears several winding Stalks about a Foot and a half high, leaning to the Earth, carrying fost Leaves, less Swallow-tail'd than those of the round, terminating in a Point, and hanging upon their Stalks. The Flowers are like the Round; the Fruit in Form of a finall Pear, producing a flat Seed: The Root is near a Foot long, sometimes the Thickness of a Man's Wrist, and sometimes an Inch. The Colour, Smell and Tafte, like the others. This grows in the Fields among Corn, in the Hedges and Vineyards.

The second King of Long Birthwort is call'd Aristolochia longa altera, or Hispanica, the other Long or Spanish Birthwort. This differs from the former only in that the Flower is not so purplish within, and the Root is much shorter. This grows plentifully in Spain, in the Kingdom of Valencia, and other warm Places among the Vines. Both the Round and Long contain a great deal of essential Sait, Oil, and Phlegm. They all result Poison, Pestilence, and the Gangrene. Both Root and Leaf are useful in external Remedies.

The third Sort, or Species of Birthwort, is call'd the Saracen Birthsvort, or Clematite, of which there are two Kinds: First, the Ariftolochia Clematitis recta: This bears straight, firm Stalks, of two Feet high, where there interchangeably hang, upon long Stalks or Tails, Leaves of the Figure of Ivy, but of a pale green: The Flowers grow in great Numbers upon the Necks of the Leaves, like the former Kinds, but less, and of a pale yellow Colour: The Fruit, on the other Hand, is larger, fill'd with black flat Seed: The Root is little, fibrous, winding on all Sides, grey, of an agreeable Smell enough, bitter in Taste, and pungent. This Plant grows in the Fields, Woods, Hedges, or Lanes, in the hot Countries.

The second Sort is call'd Aristolochia Clematicis Serpens, or Altera Hispanica: It bears a small Vine-like Stem, of three or four Feet high, hollow, winding, and clinging to other Shrubs, or neighbouring Plants, like the Hop or Bindweed: The Leaves are large, pointed, green, and united above, and purple and white underneath, join'd by long Stalks: The Flower and Fruit are like the Clematite; but the Flower is yellow, or of dark purple, lin'd within with a fine Wool. The Roct is longish, and composed of many serpentine Fibres, of a pale Colour, acrid Taste, a little aftringent, but not grateful. The whole Plant is sweet, and grows chiefly in Spain, in Bushes in the Olive-Grounds.

The fourth is call'd the Small Birthwort, of which there two Sorts; the first, Aristolochia tenuis, or Aristolochia Polyrrhizos, sive Pistolochia Plinii, it being the best to assist the Birth, or bring away the After-Birth, Dioscorides representing it to be the properest for that Purpese. This is the least of all the Birthworts: It produces several small Stalks, or Boughs, which spread themselves upon the Ground. The Leaves are form'd like the Ivy, but little and pale, sasten'd by slender Tails or Stalks. The Flowers are like those of the other Kinds, but a great deal smaller, sometimes black, sometimes of a yellowish green; the Fruit like a small Pear:

The

The Roots are very fine, stringy, join'd together by a little Head, in Shape of a Beard, or Head

of Hair.

The fecond Sort of this is call'd Aristochia, or Pistolochia altera: It bears Vine-like Stalks of a Foot in Height, that have corner'd, hollow, pliant Branches, lying on the Ground, of a dark green Colour: The Leaves like the other Sort, but sharper at the Ends, ty'd to long Stalks: The Flower and Fruit like the Long Birthwort; but the Flower is not of such a brownish red, and the Fruit much less: The Roots are fine, with slender Fibres, sweet smelling, like the former Species, and grow in the hot Countries. All the Kinds of Birthwort are detersive and vulnerary, good to provoke Urine and Sweat, to attenuate the gross Humours, and assist Perspiration.

[The Round Birthwort is the Root of the Aristolochia rotunda stere ex purpura nigro, C. B. Pin. 307. The Long, of the Aristolochia longa vera, C. B. Pin. 307. The Small, of the Aristolochia Pistolochia dicta, C. B. Pin. 307. Pistolochia vulgatior, Park. 203. and the Clematite, or Sarucens, of the Aristolochia Clematitis recta, C. B. Pin. 307. Aristolochia Saracenica, Ger. Em. 847. These are all kept in the Gardens of the Curious here. They are all posses of much the same Virtues; but the Long has them in the greatest Degree. It is esteem'd a Cleanser of the Womb, a Forwarder of the Menses and of Delivery: It is also accounted an Alexipharmick, and has therefore a Place in the Theriaca. Externally used it is detergent and suppurative.]

## 27. Of Pellitory of Spain.

Pomet.

Pennet.

Pennet.

Pennet.

Dellitery of Spain is a Root of a moderate Length, the Thickness of a little Finger, 'greyish without, white within, furnish'd with some small Fibres, of an acrid burning Taste. It produces little green Leaves, and the Flowers of a Carnation Colour, like our Daisics. Chuse such as is new, well fed, dry, difficult to break, and of a Taste and Colour as said before.

The Pellitery we have, is brought by Marfeiller from Tunis, where it grows common: It is much in use for easing the Tooth-ach, being held in the Mouth; and is of several Uses in Physick. The Name of Pyrethrum is taken from its burning Quality; though some will have it come from Pyrrhus, King of Epire, who first discovered its Use.

There is also another Sort of Pellitory, which the French call Alexander's Foot, and which is the tusted Pellitory: This is a little Root half a Foot

long, of a brownish grey without, and white within, something sibrous, at the Top of which grows a Sort of Tust or Reard, like that of Spignell, of an acrid biting Talte, approaching to that of Pellitery, upon which Account it is call'd Wild Pellitery; and some use to fell it for true Pellitery, but it is easy to distinguish, this being smaller, longer, and carry'd about in Bundles. The Leaves of the Plant are very little, of a greenish yellow; and the Flowers, which grow in Umbells, are of a pale red. This is brought to us from Holland, and other Parts. Both this and the other ought to be chosen new, and in large Roots. They use this, as well as the other Kind, to make Vinegar in France; but this is of little Use in Physick.

Pyretbrum, in English Pellitory, or the Spitting Root, is brought dry'd to Lemery. us from foreign Countries; but we have two Sorts: The first, and the best, is in Pieces, about the Thickness of one's little Finger, round and wrinkled, of a greyish Colour without, and white within, deck'd with a few Fibres, of an acrid, burning Taste, and grows

in the Kingdom of Tunis.

The Plant which bears this, is call'd Pyrethram Flore Bellidis, the Pellitory with the Daify Flower. Its Leaves are stash'd like those of the Fennel, but much less, and green, resembling those of the Carrot: They rise from small Stalks, which on their Tops support large radiant Flowers, of a Carnation Colour, like the Daify: After them

fucceed finall oblong Seeds.

The second Sort is a Root about half a Foot long, much flenderer than the former, of a brownish grey without, white within, furnish'd with Fibres. This Root has an acrid burning Taste, like the former, and is brought to us in Bundles from Holland. Some call it Wild Pollitory. The Plant which it bears is call'd Pyrethrum Umbelliferum, and by the French, Alexander's Foot. It grows a Foot high; the Leaves are small, cut fine as the other Pellitory, but of a yellowish green; the Flowers grow on the Tops, dispos'd in Clusters, of a pale red. Both the Sorts of Pellitory contain a great deal of acrid Salt and Oil, but the first is more powerful than the second. There is also a Pseudo-pyrethrum, which is call'd Ptarmica, or Sneefe-wert, which grows in Meadows, or un-till'd Grounds. The Roots are chiefly kept in the Shops; being hot and dry, it is inciding, attenuating, and violently fudorifick; used chiefly against viscous Flegm in the Lungs, which it expels by Spitting and Urine: It is good against most Diseases of the Brain and Nerves; expels Wind, and prevails against Apoplexies, Lethargies, Vertigo's, Palsies, benumb'd Members, Cholicke:

Chelicks: It stimulates the Fibres, and is faid to cure Quartan Agues. A Gargle of it cures the Thruth, and cold Rheum in the Teeth or Cuttor 548 Prophrum thention'd here; B' tho Root of the Principum Mention'd here, is the Root of the Principum Flere Billidis, C. B. Pin. 148. Principum Flore Bellidis, H. Ox. 3. 2. And the other of the Principum Umbelliferum Mathield. B. 3. 20. It is a Different among Bottleral Writers, which of these is the true received. Discorides's Description agrees to the with the sumbelliferous Kind, that many describes that to be the true; and those with archive principum in the Daily-slower'd one, as the true, according it to Discorides's Description by the Alternation of a Word in the Greek, which they have an Error of the Press, and that the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the true Reading, instead to the Words Indian is the True Reading, instead to the Words Indian is the True Reading.

28. Of White and Red Beham, or Ben.

THE Polite Ben is a Root like the Pellywy, grey without, and fome-Pomet. thing whiter within; the Taste almost insipid, but being half long in the Mouth, it leaves a Ritternels diagreeable enough. This Root is brought to us from the same Places that the Red Ben 1945, and the Leaves are much the fame, except that this has, at the Bottom of each Leaf, four small ones of the same Form and Colour, that grow opposite to cach other; in the Middle of which riles a high Stalk, adorn'd with some few Leaves, and a Budding of Scales, which, when blown, produces a differ yellow Flower. Chuse your Root glump, not rotten, or easy to break, but the french you can possibly get. It is appropriated to the same Intentions with the Red Ben.

Red Ben.

The Red Ben is a Root, brought to us cut in Pieces like Jalap, inche Mount Libanus, and other Places of with Mich, in the Ground, is of the Shape of a Mark Parine, deck'd with Fibres, of a brown Louis Districtly, and red within, from whangs arise profit, long Leaves, like those of the Districtly which grow Stalks adorn'd with fee Flourist which are rang'd two and two together, of the Shape of Jamaica-Pepper. Chuse such as is dred of a high Colour, aftringent, aromatick, and the as it can be. It is not much used in Meditine, and the Root of Angelica. use it, generally substitute the Room of Angelica,

Zedoary, Borrage, or Buglos, in its Place. It is reckon'd cordial, and a Relister of Posson.

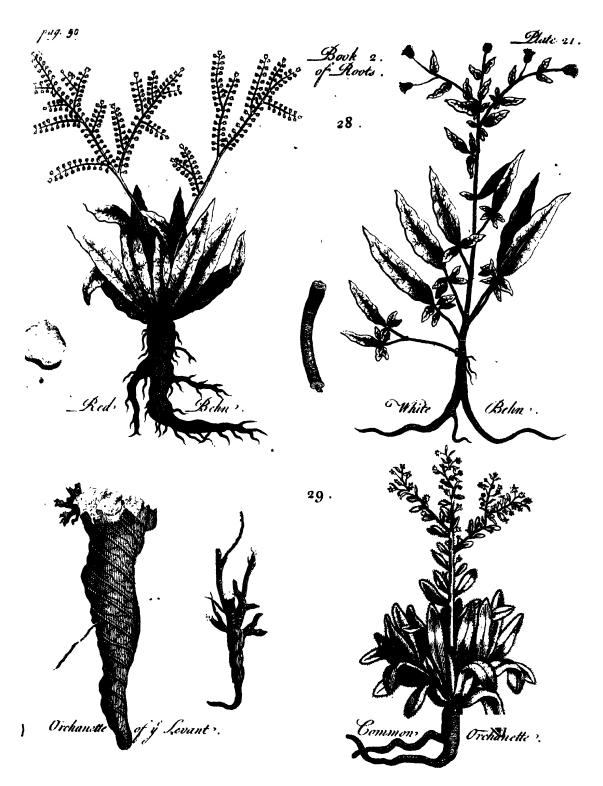
[There has been much Dispute about what were the Behm Album and Rubrum of the Anticuts: The Album has been by forme judg'd to be the Lyching the first mus Believ Album vulgo, C. B. Pin. 2014 by others the Servetule affine Capitals others, the Jacon orientalis panda & Constant facie flore lutee magnet, Tourn, Cor. 32: The second of these is the Print describ'd by Pring; but the last in all Probability is the true Behen Album of the Arabians. The Behen Rubrum is in all Appearance the Root of a Species of the Limini ini. and the Root of the common Limmen is generally order'd in its Place wheither of them, however, are now much used in Medicine.]

29. Of Alcaret.

ALKANET is Most of a moder rate Size and Language of a door Pomet. Red Colour on the Outlide, and white within, which produces green sough Leaves, like the Buglos For which Reason some call it Wild Buglos. In the Middle of which arises a straight Stalk, adorn'd with little Intaverland Flowers, in Form of a Star, of a fruit pale Blue. Chuse your Allanet new, pliant, betayet of a de p red without, white within, with little blue Heads, and which, being rubb'd a little, wet or dry, upon the Nail; or on the Hand, makes a beautiful Vermillion.

As the Colour of the fud Root lies in the Superficies, those who use it for colouring of their Wax, Ointments or Oils, prefer the Smill to the Gross, and if it is clean, it produces a very fine red. The filkinit grows in Provence, from whence it is brought to us by the Way of Mifulles, and N Imes in Languedoc. This Root is very uleful in Plyfick, as well as for the Purpoles aforefaid. It is aftringent and deterfive, stays Loofeneffes, and is used for cleaning and drying old Ulcers.

There is another Alkanet of the Levent, or Constantinople, which is a Root of a furbrizing Nature, as well from its Size and Thickness, as it grows sometimes larger than the Arms, as or its Figure, for it looks to be nothing but a Mai of large long heaves, twifted like a Roll of To-bacco, and it a great Variety of Colours, the first being an obscure Red, which is succeeded by a very fine Violet Colour; at the Top of which is a Kind of Mouldiness, which is white and blueish, and, as it were, its Florer. In the Middle of the said Root is found a Heart, which is a little Bark, thin and long, lake Cannamon,



of a very fine red without, and white within. This Alkanet is very little in Use, but yet gives a better Colour than the common.

Anchusa puniceis floribus, or Buglos-Lemery. fum radice rubra, five Anchufa vulgatior, by Tournefort; in French, Orcanette, is a Species of Buglos, a Plant which bears feveral Stalks above a Foot high, bending to the Ground. The Leaves are like those of the Wild Bugles. The Flowers grow on the Top of the Branches; and, when they fall, are succeeded by Cups, which contain Seeds shaped like a Viper's Head, of an Ash-Colour: The Root is an Inch thick; the Bark red, and whitish towards the Heart. This Plant grows in fandy Places in Languedoc and Provence. The Root is dried in the Sun, to be fit for the Druggist's Use. It makes a good Dye for Pomatums, and the like; and yields a great deal of Oil, with a little Salt: It is aftringent, stops Fluxes of the Belly, being made into a Decoction. They use it outwardly for deterging, and drying up of old Ulcers.

We have brought to us oftentimes from the Levant, a Kind of Orcanette, call'd Orcanette of Conflantinople: This is a Sort of Root as thick and large as a Man's Arm, but of a particular Shape; for it produces a Mass of large Leaves twisted like a Tobacco-Roll: In Appearance the

whole looks as if it was artificial.

[The Alkanet of the Shops is the Root of the Anchusa puniceis floribus. C. B. Pin. 255. Anchusa minor purpurea. Park. 517. It is not much used in Medicine. Some to prevent the Loading the Lucatellus's Balsam with the Powder of Sanders word, give it its red Colour by first boiling this Root in the Oil, as others do, according to the Edinburgh Dispensatory, with the Sanguis Draconis.

There is also another Species of Alkanet, the Anchusa lutea of the Shops, which is the Root of the Sympligtum Echii solio astoliori store luteo. Tourn. Inst. 138. But it is sees used than the other. The Levant Alkanet is artiscial.]

30. Of Madder.

THE Madder, which is call'd Rubia tinstorum, is the Root of a Plant well known. 'Tis of this Root the Dutch make such great Advantages, by the Quantity of it they sell in different Countries, and particularly in France.

The Madder comes to us in three forts. The first Sort is brought in the Root just as it comes out of the Ground, without any other Preparation than that of being dry'd. The second Sort is the Root Madder, freed from the Bark and the

Heart, and ground by a Mill into a gross Powder, as we buy it. The third Sort is the Root Madder in the gross, ground to Powder. But the second Kind is the best; which to have all its Perfection ought to be, when new taken out of the Bale, of a pale red, and to grow to a very fine red in keeping. That of Zealand is effected the best. It is used by the Dyers, and in Physick. It is hot, desicative and vulnerary, good in Obstructions of the Liver and Spleen, in the Jaundice, and Suppressions of Urine.

Madder is a Plant whereof there are two Sorts; one call'd Rubia tineforum Lemery. fativa, according to Tournefort; five hortenfis, according to Parkinfer, that is, the Garden or cultivated Madder. The other is Rubia sylvestris or Erratica. The first Kind bears long four-fquar'd Stalks, knotty and rough, from whence shoot out at every Joint five or fix oblong narrow Leaves, which furround the Stalk in the Shape of a Star or Wheel. The Flowers grow on the Tops of the Branches, fasten'd by little. Stems: They are in small Cups cut into five or fix Parts, disposed like a Star, of a yellow greenish Colour; and when the Flower is gone, the Cup brings forth a Fruit of two black Fruits, ty'd together full of Juice; each of which contains a Seed almost round, enclosed in a Membrane or The Roots are numerous, long, and divided into feveral Branches; about the Thickncss of a Goose-Quill, red throughout, woody, and of an astringent Taste. They cultivate this Plant in rich Ground, in many Parts of Europe, and gather the Root in May and June, to dry it for keeping and Transportation.

The second Sort, call'd Rubia Erratica, or Wild Madder, is much less, and rougher than the former: The Flowers are small and yellow: It bears the Fruit in Summer and Autumn, which lasts the same in Winter. It grows in the Hedges about Montpellier; the Root is only used in Physick, especially that of the Garden Kind: It contains a good deal of essential Salt and Oil. Both the Sorts are aperitive by Urine, and a little astringent for the Belly: They provoke the Terms, open Obstructions, and are used successfully in the Jaundice, and may be given in Powder, Tincture, or Decoction, to the Purposes aforesaid.

[This is the Root of the Rubia Tinctorum fativa. C. B. Pin. 333. Rubia major fativa five hortenfis 274. It is cultivated in Gardens and Fields, and flowers in June. The Root is of a fweetish Taste, mix'd with some Bitterness. It is commonly used in Decoctions, Diet Drinks, and medicated Ales for Obstructions of the Viscera.]

H 2 31. Of

32

er. Of Salisparilla

Period.

Appendix of a goot, the Plant control Party of a goot, the Plant of a good of the leaves of the Plant of the Party of the Plant of the Control Party of the Plant of the Control Party of the Plant of the Party of the Plant of the Party of the Plant of the Party of the Party of the Plant of the Party of the

in wat and matthy Granted.

Some will head have it a this Salfaparilla, is a Plant which is very confinct in France, and call d Smilar aftera major, the large prickly Bindweed, or Smilar. There was two Sorts of Salfaparilla fold, wiz. the indien Salfaparilla of Spain, and the bigger Salfaparilla of Marignan, or Maraban. The finely and best of the two, is that of Spain, which to be in its Perfection ought to be in long stringy Moots, the Thickness of a Goose-Quill, greying without, and white with two reddish Streaks within, easy to split in two, and when it is fplit free from Dust or Wormholes, and fuch as being boal'd, tinges the Water of a reddish Colour. Reject such as is moist, extremely small, full of Fibres; and likewise a Sort of Salfaparilla, from Helland, in little Bunches, cut at both Ends. Some will have it that the Salfaparilla, reddith on the Outside, and ty'd up in long Bunches, which comes by the Way of Marfeiller, is not for bood as the other; but, for my Part, I can affirm, I never could find any Difference bearing that and the true Spanish Salsaparilla: The large Bastard Salsaparilla, or that of Mariena Spanish Salsaparilla; The large Bastard Salsaparilla, or that of Mariena Spanish absolutely to be rejected; this respectable fallely Muscowy Salsaparilla, but it is fitting for lighting of Fires than to be used in Physick. The sals of this Root is for Ptisans, or Diet-drinks for curing the Veneral Disease, and making them has a sare to fat. The Dose in Desection is team half an Ounce to an Ounce.

Sarfaparilla, or Salfaparilla, is a Lemery. very long Root, like a small Cord, which is brought from New Spain in Collars, or long Bundles of shrous Branches, the Thickness of a writing Colle. This is the Smilar, or Bindweed, call'd Smilar Affecta Peruana, five Salfaparilla. The Stalk is long, serpentine, woody, prickly, yielding, and slimbing like the Vine upon every Shrub or Tree. The Flowers, which are of a white Colour, at last produce

Berries, which are round and fleshy like small therries, green at first, a little reddish asserwards, and at last black, which contain in them one or two stony Nuts, of a which yellow, in which is a Seed, or white hard Kernel. The best Sulfaparilla, is that which is round, first, and to break when beat together, mealy, and white within; that which is subject, learn within and not mealy, being nothing near so with that is some which colors from Jamash, but that is some which colors from Jamash, but that is tough, not mealy, and is a second with the Spanish. Our Merchants tring another and with the Spanish. Our Merchants tring another sort, which they call Merchants tring another sort, which is larger and growth that that of Japanilla, which is as much as to say, is the Jamash. That and nothing nigh so good. It will a suffapanilla, which is as much as to say, is the Jamash. That and Root is sudorifick, alteripharasher, and a great Alcali. Its chief Use is against the French Pox and its Symptoms, the King's Evil, Rheumatisms, Catarrhs, Gouts, and all Districts proceeding from them, taken in a Foundation a Dram to two Drams.

[It is the Root of the Satilan after Peruviana frue Sarfaparilla. C. B. Pin. 200. Smilax Peruviana Salfaparilla. Ger. 709. It was formerly used in America for Venereal Diseases, and from thence grew in Use here in the same Intentions, tho' its Virtues are at present very much suspected; it is but in a few of the Officinal Compositions, but pretty much in extemporaneous Prescription, and constantly taken by many People as a Kind of Tea.]

## 32. Of China Root.

THE Ching is a known crumpled Root, red lish without and within; Ponet. which, from the Ground, fends forth Stalks that climb non other Plants, from whence grow large green Le wer, in the Shape of a Heart; the Stalk is furnish't all along with little Prickles like Thorns.

The China which we fell, is brought to us from several Parts of the East-Indies at 1 China, both by the Way of Holland, England, and Marseilles, sometimes just as it is taken out of in Ground, but oftener cleansed in Part from its outer Skin, and with its Ends cut off, to make it sell the better.

Chuse such as is heavy, resinous, difficult to cut, cleansed of its outer Skin, of a reddish Colour, and take Care that it has not been Wormeaten, and the Holes stop'd with Bole, or such other Matter, as is very frequently the Case. The China is much in Use to make sudornick Pusans,

and



one being fedding und without the other.

There grows in the lights of the Antilles, a large River, which fome affirm to be the true China paint as that is not yet confirmed, whall refer the Readenton Book of the everend wither du Tertre, who has land and large Deficiption thereof that an Account has no Relation to our humanes, I do not think it proper

to fay more of it.

[There are the Hinds of China Rope fold in the Shopes the true Kind is the Rober of the China Orientalis Seu Smilan afpera Chinenfit Lampatam dicta in MSSAHerman. Sankira Smilax minus Spinofa fructu, rubicunda madice Virtu ofa China Dilla. Komp. Ameen Exot. 781. This is brought to us from China. The other is the China Spuria Nodofa. C. B. Pin. 297. The Pseudo China Park. 1579. It is the Root of the Kabolossa Rir ibunnawel Smilax Indica Spinofa folio Cinnamomi, Pfoudo China palbufdam. Mus. Zeyl. 22. This is brought to us from the West-Indies. It differs but little from the other, and in all Probibility is the Root of the same Plant brought into a different Climate. It was once in great Estecm in the Venereal Disease, but has now lost much of its Credit.]

# 33. Of Asarum, or Assarabacca.

THIS Root commonly call'd Affara-bacea Cabaret, or Wild Spiknard, Pen et. grows very frequently in most Parts of the Levant, in Canada, and likewife in France all about Lyons. This Root, when in the Earth, fends forth Stalks, on the Tops of which grow g cen thick Leaves, like a Heart, the Flower is rose tashion'd, and of a reddish Cylour.

Chuse the true Afarum from the Levant, if you can possibly get it, and such Roots as are the m ift beautiful, not fibrous or token, but of a g cy Colour on the Outlide and Within, of a penetrating quick Smell, and M an acrid Tafte, atter ded with gi fittle Bitterness. Take care that you do not take the Autrina, or small Spiknard for it, which is brought to us from Burgundy, and may be casily distinguished, in that the Ajarilm has grey Roots of the Thickness of a wri-. ung-Pen, and the Azarma is in little blackish Roots, dry and full of Filaments.

It is observable that this Plant has its Root lying upon, and hardly at all entering into the Earth, but at a Foot Depth under some of the Roots there are knobby Substances, like Truffles in Shape, yellowish without, and white within, which when squeez'd emit a milky Juice, which

is caudick like Fire. This I mention here, not knowing that any other Person has observ'd, or written about it.

The Aforum is but little used in Martine. It is an Emetick insused in the Quantity of two Drams, or something more in helf a Pint of White Wine, or given in Powder. It is a Diuretick also, boil d in Water, and has a Place in some Galenical Compositions.

Azarum, or Afaram, wild Spilewird, is a fmall Plant white hours its Leaves Lemmy, like those of the Grand-less, but smaller, rounder, tenderer, mador, and of a thining green, fatten'd upon long Stalks. The Flowers grow ness the Root, supported upon thort Stems, which arise at the bottom of the Stalks of the Leaves: Each of the Ployers has five or fix purple Supporters, which mile up the Hollow of the Cup, that is divided commonly into three Parts. When the Flower is gone, a Fruit follows in the Cup, which is cut into fix Parts, and divided each lengthway into fix Lodgings, which contain in them little, longish brown Sceds, full of a white Substance, whose Taste is fomething acrid. The Roots are close by the Ground, fmall corner'd, creeping, knotty, crooked, and stringy. This Plant grows upon the Mountains, and in the Gardens or shady Places, and the Leaves continue green all the Year. It purges upwards and downwards; is aperitive, and opens Obstructions. The Dose is from half a Dram to two in Infusion, and from half a Scruple to a Dram in Powder. It is likewife used in several Compositions, where it does not vomit at all, because it is mix'd but in small Quantities, with abundance of other Ingredients. It is the Root of the Ajarum Vulgare. Park. 266. Asarum vulgare Retundifolium. Hist. Ox. 3. 511. It is kept in Gardens and Flowers early in the Spring. Much has been faid in its Praise in many Intentions, but it is now feldom given inwardly; its principal Use is in a fort of Snuff made of the dry'd Leaves reduced to Powder, which powerfully drains mucous authours from the Head.

The other Species is the Afarum Virginianum feu Serpentaria nigra, the Manum Verginianum folio cordato Cyclaminis more Maculeto. H. Ox. 3. 511. The Roots of this are sometimes offer'd to Sale for the true Snake Root.]

## 34. Of Liquorice.

Iquorice, which the Latin have call'd L Glychyrriza, Liquiritia, Radix dul- Pomet. eis, is a Plant which has clammy Leaves, green, thining, and roundish; the klowers are of a pura purple Colour, from whence come the Hulks,

wherein the Seed is contain'd.

The Liquorice fold at Paris, is brought thither by Bales, from several Parts of Spain, but chiefly from Bayonne and Saragessa Side of the Country, where that Plant grows in abundance. Chuse your Liquerice fresh, smooth, of about two Fingers thick, reddish without, of a Gold-Colour within, easy to cut, and of a sweet agreeable Taste. That of Saragossa is the best, and is to be preferr'd to that of Bayonne, which is greyish without, less, earthy, and of little Esteem. It must be excefully preserv'd lest it spoil, for when one Piece of it begins to taint, the whole Parcel is in Danger. As to dry Liquorice, chuse fach as is yellow and dry, and take Care that it is not the Refuse of the Bales, which is commenly black, spoil'd, and of no Value. Use of Liquerice is too well known for me to need to describe it. I shall however observe that Liquorice Powder taken with an equal Quantity of Flower of Brimstone, from two Ounces to four, according to the Size of the Horse, twice a Day for cight Days, is a good Remedy to prevent broken Windedness when it is first perceived, and will prevent the Malady from apnearing for some Days, which those who buy Horses ought to be upon their Guard about.

During the Use of this Remedy, the Harse must be kept at Rest, and have as little Hay as

possible.

## Of Black Liquorice Juice.

They make of Liquorice and warm Water, a firmg yellow Tincture, which afterwards is evaperated over the Fire, to a folid Confistence, till it becomes black, and is what we call black Liquorish Juice, which comes to us ready made from Holland, Spain, and Marseilles, in Cakes of different Sizes, which sometimes weigh four Ounces, or half a Pound. The Liquorish Juice which has the most Virtue, is black without, and of a shining Blackness withing easy to break, and of a grateful Talte enough; reject such as is soft, reddish, and, when broke, is dirty or gravelly, and has a burnt Taste. The Juice is very useful to cure those who are afflicted with Fluxes of Rheum, Coughs, Asthma's, &c. chewing it in the Mouth like Tobacco, or diffolving it in any convenient Liquor. We fell besides, other Kinds of Liquorish Juices, as those of Blois, both white and yellow, and those of Rheims or of Paris, which are cut into flat Pastiles, or made round like a small Wax-Candle. The white Juice of Liquorish, as 'tis call'd, made at Paris, is a Composition of Liquorish Powder, Sugar, Almonds, and Orrice Powder: but as there are various Methods of making up these Kinds of Lozenges, either with Gums, Sugars, or Variety of Drugs, I shall pass them by, and only say, that I think the black Juice, fingly, to have more Virtue than any of the Compositions.

There are several other Roots sold in the Shops, belides what I have mention'd, which grow in the Gardens, and other Places about Paris, as the Enula Campana; the Paony, male and female; the greater and lesser Arum, or Wake Robin; the Dog-grass, or Quick-grass; and several others, which the Herb-sellers furnish us with, as we

have Occasion.

Glycyrrhiza vulgaris, or, according to Tournefort, the Glycyrrbiza siliquosa, Lemery. vel Germanica, is a Plant which bears feveral Stalks three or four Foot high: The Leaves are longish, viscous, green, shining, difposed into Wings like the Acacia, ranged in Pairs along the Side, terminating in a fingle Leaf, of a fmart Taste, tending to an acrid. The Flowers are of the leguminous Kind, and purple-colour'd, fucceeded by short Husks, which enclose Seeds that are ordinarily of the Shape of a little Kidney. The Roots are large and long, dividing themselves into several Branches, some as thick as one's Thumb, and others as the Finger.

There is another Sort of Liquorish which is call'd, Glycyrrhiza Echinata, or Glycyrrhiza capite Echinato, the prickly Liquorish, or that with the Chesnut Head: It bears its Branches a Man's Height, carrying long Leaves, sharp at the Ends, and made like the Mastick Tree, green, a little glutinous, and disposed as the former Species. The Flowers are small, bluish; after which grows Fruit composed of several Husks, which are longish and briftled at the Points, standing one against another, and join'd together almost at the Bottom. The Roots are long, and as thick as an Arm, growing straight in the Ground, without any Division, at all. This grows chiefly in Italy, and is of no Kind of Use, because the other Sort is fo much the better both in Tafte and Virtue.

Liquorish is brought to us out of Spain, and many other Countries of Europe, but the best is that which grows in England. The best is large. thick, substantial, and of a good Length, being of a brightish yellow within. The Spanish is much like the English, fave that it dries faster, and is more wrinkled in its Bark. That which comes from Brandenburgh is a good Kind, and being dried will keep good two Years. It is one of the best Pectorals in the World, opens Obstructions of the Breast and Lungs; easeth griping of the Bowels and Cholick, and is good to mix

and Bladder, allays Sharpness of Urine, and piffing of Blood; is singularly uteful against Coughs, Colds, Asthma's, Wheezing, Difficulty of Breath-

ing, and other Difeases of those Parts.

[This is the Root of the Glycyrrhiza filiquosa vel Germanica. C. B. Pin. 352. Glycyrrhiza vulgaris. Ger. Em. 1302. It is cultivated in Fields and Gardens, and flowers in June; its chief Place of Growth with us is about Ponte-fract in Yorkshire, tho of late there is a great deal cultivated near London. We have two Sorts of the Liquorice Juice in the Shops, the one call'd Spanish, which is made near Tortosa in Catalonia; the other is made here of the stringy Parts of the Root, and mix'd with the Pulp of Prunes; but they are easily distinguish'd, as that from abroad is of a much finer Colour and Consistence, and harder and more brittle.]

### 35. Of Hermodactyls.

Pomet. Roots, of the Shape of a Heart, generally of the Bigness of a middling Nut, but flat; of a reddish Grey without, and White within; heavy and compact, and almost of an insipid Taste, while they are fresh; but light, and subject to be worm-eaten when old: They are brought dry'd from Egypt and Syria.

The Plant has Leaves like the Leek, of a fine Green; among which rifes a Stalk, which carries on its Top a fmall pear-fashion'd Fruit. Chuse such as are fresh, large, well-fed, reddish without, and white within, the driest and least full of Dust that can be got. It is a Commodity of which it is best to lay in no great Store, it being so ready to decay, or worm-cat, as I mention'd before. They are much us'd in Physick, in several Ga-

lenical Compositions.

The Hermodallyl is a tuberous or Lemery. bulbous Root, as thick as a little Walnut, being of the Shape of a Heart, red without, and white within, of a spungy light Substance, without Fibres, easy to break, and crumble into Powder like Meal, of a sweetish Taste a little glutinous. It is brought dry from Espir and Syria. The common Opinion is, that it is a fort of Colchicum, call'd by Casp. Baubinus, Colchicum radice siccata alba; and by Lobel, the Hermodaltyl of the Shops that is not poisonous,

There are others that believe it is a kind of tuberous Orrice, called by Casp. Baubinus, Iris tuberosa solio anguloso, the tuberous Orrice with the corner'd Leas, and by Manthiolus, Hermodastylus yerus: So that we ought to suspend our Judgment

on this Affair, and wait 'till it is decided by more Travellers that can give a better Light into this Business, and sufficiently clear up our Doubts. It is a singular Purge, expelling tough Flegm, and clammy Humours, from the Joints and extreme Parts of the Body; and is accounted a Specifick against the Gout in the Hands and Feet, given in Powder, from half a Dram to a Dram; and in Insusion, from two Drams to half an Ounce. The Hermodally! Pills are good against Palsies, Tremblings, Convulsions, Colicks, Gouts, &c. being given from two Scruples to sour.

[It is very much disputed yet, among the best Authors, what the Hermodaliys are the Root of; the most probable Conjecture is, that the Plant which produces them, is the Colchicum Chionense storibus Fritillaria Instar tessulatis foliis undulatis. Hist. Ox. 341. Colchicum variegatum Meliagridis

Facie. Cornut.

They were commonly us'd as a Purge among the Antients; but their Action is very flow, tedious, and fatiguing; they are best corrected with Aromaticks, and are now sometimes mix'd with Jalap, and given in Rheumatisms, and are an Ingredient in the Electrorium Caryocofinum of the Shops.

The Women of Egypt eat them roafted to

make them fat.]

### 36. Of the true Acons.

THE true Acorus, which is improperly call'd Calamus Aromaticus, is Pomet. a knotty Root, reddish without, and white within, adorn'd with long Filaments, or fibrous Strings, of a light Substance, and easily subject to be worm-eaten. There arise from the said Root green Leaves, long and narrow; the Fruit is about three Inches long, of the Size and Shape of long Pepper.

Chufe your Acorus new, well-fed, clean'd from the Fibres, hard to break, of an acrid Taste, accompanied with an agreeable Bittterness, of a fweet Smell, and very Aromatick; 'tis for this Reason it is more known by the Name of Calamus Aromaticus, though altogether improper, than that of the Acorus. This Root, which is commonly of the Thickness of a little Finger, and about half a Foot long; is brought to us from feveral Parts of Poland, and of Tartary, and likewife from the Isle of Java, where it is call'd Diringo. The Acorus is of Use in Physick; it is warm, diuretick, stomachick, cordial, and a Refifter of Poison, and is one of the Ingredigents of the Treacle, without any other Preparation but being well pick'd and clean'd, and freed from Dirt, or any thing else that may stick to the

Root:

Root; but its principal Use is for the Perfumera. There is another Sort of Acerus, call'd the falle distribution in Latin, Acerus adults distribution, which is a follower, with pullow Flowers, watry Places: It is attenuant, resolved the surface of the Flowers, and proper to they Fluxes of the Hemorrhages, but is little us'd.

The true Acorne, or Calanus Aromatics of the Shops, is a Root the Length of Indiana, and Strings of a fine light of Indiana, and Strings of a fine light of Indiana, and Strings of a fine light of Indiana, and commonly of the but fallely, and acrid, and commonly of the but fallely, although dematicus. It is brought from Lisbuations, almost like the Orrice. These is falle Acorne which is called, in Latin, Acrus adultarinus, the highest better; which is a Species of the Flag Prover; These grow in marrhy and other watry Proves. Sometimes this Root is used in Physick, but saying. Both Sorts contain in them a good deal of incided Oil, mix'd with votatile Salt. The true Sort is bitter, and of a sharp Taste, stomatics, betting and drying, of thin and subtil Parts, attenuating, inciding, and aperitive; it opens Obstructions of the Liver, Spleen, and Womb, relieves in the Cholick, and provokes the Terms. It may be given in Powder, the candied Root, Oil or Extract, from a Scruple to half a Dram; or in the Electuary Discorum, which you may see in the Landon Dispensatory.

This is the Root of the Acres verus five Calamus aromaticus Officinarum, C. B. Pin. 34. Acrus verus Officinis false Calamus, Ger. Emac. 62. It grants in wet Places, and produces its Spike in

The best Judges in Botany are agreed, that this is not the tive Calences are nations of the Antients, but the Acres verus of Disjournes.

37. Of the true aromatick Retd, or Calamus Aromaticus.

Pomet. I bitter Calamus, or rather the Pomet. I bitter Calamus, is a Reed the Thickness of a Quill, of two or three Foot high, compos'd of Joints, from whence grow green Leaves, and little Clusters of yellow Flowers. This little Reed grows in several Parts of the Levant, from whence it is convey'd to Marfeilles, sometimes whole, but generally in small Bundles of about half a Foot long. Chuse the largest which is finely, cleans'd from the small Room and the lambels as a diswell fine without, and whitish within, surnish'd with a white Pith; for

when it is stale the said Pith will turn yellow, and fall into a Dust, as if Worms had eaten it: It ought also to break into Splinters, and, when you put it into your Mouth, to have an intolerable Bitterness. It is chiefly us'd for Voicinareale.

Calamus veries, few amarus; the true or bitter Galamus, is a kind of Reed Lemery. which we bring dry from the East-Indies in little Bales. It grows about three Foot high; the Stalk is reddish without, and stull of a white Pith within; it is divided by James, on each of which grow two long green Lemis, sharp at the Ends; the Flowers rule on the Tops, dispos'd in Clusters or yellow Pruncal. It is sweet scentcol and fragrant, but somewhat bitterish in Taste, breaks white, and is addittle knotty. This is us'd against Diseases of the Head, Brain, Nerves, Womb, and Joints. There is prepar'd from it, as from the Amus, the Consect, the Sprit, the Oil, the Extract, and the Electuary Diacorum.

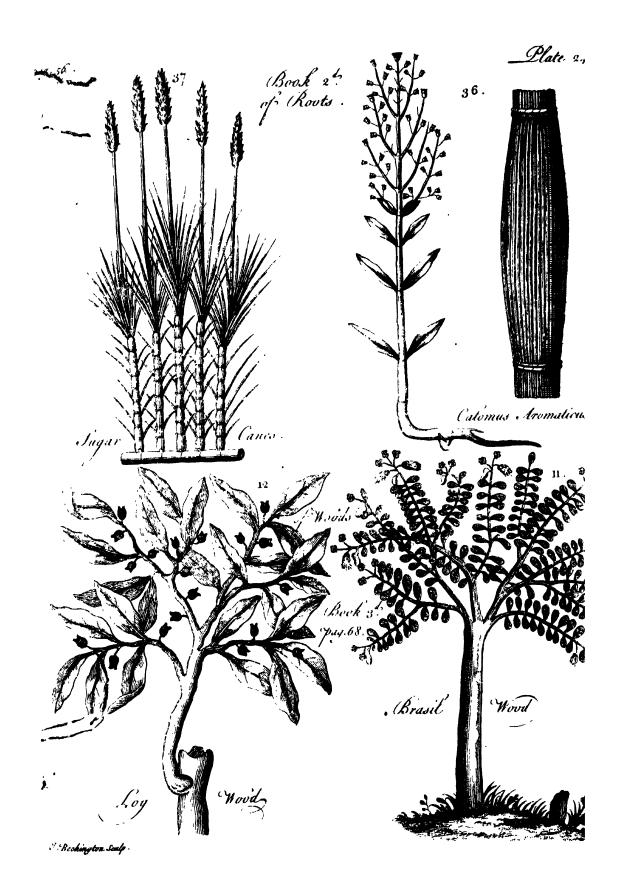
[This is the true Calamus Aromaticus of the Antients; it is the Stalk of the Caffabel Darrira, Alp. Exol. It grows in Egypt, and has four leav'd Flowers, succeeded by long pointed Seed-Vessels, full of very small black Seed; but its Virtues are unknown among us at present.

### 38. Of the Sugar-Cane.

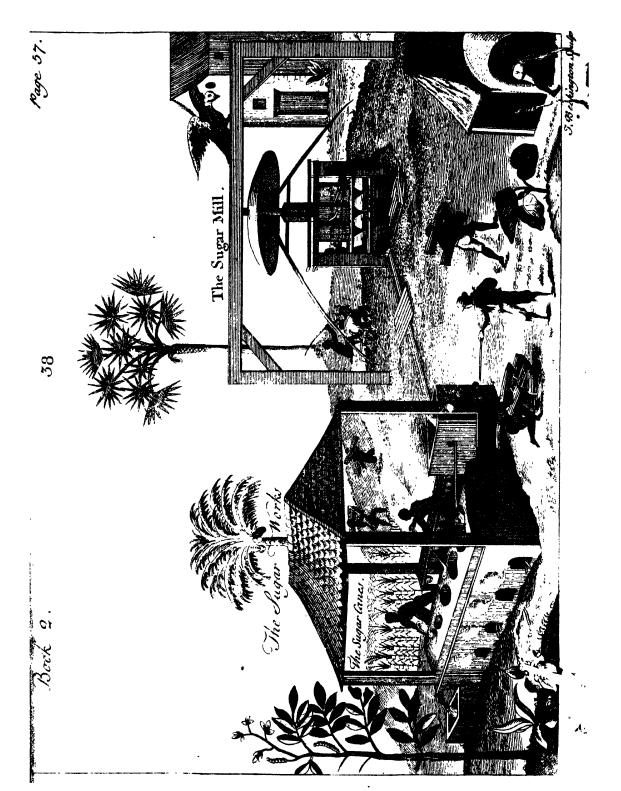
Sugar-Canes are Reeds which grow plentifully in feveral Parts of the Pomet. West-Indies, in Brasil, and the Antilles Ides. These Canes, or Reeds, being in the Ground, shoot out from every Joint, another Cane, of five or six Foot high, which is furnish'd with long, green, narrow, sharp Leaves. In the Midway of the Height of every Cane, there grows a Stalk, terminated in a Point, at the Top of which stands a kind of Flower, of a Silver Colour, and in the Shape of a Plume.

The Indian prepare the Ground, digging about half a Foot deep, with their Spades, in Furrows, in each of which they place a Cane of about three Foot long, and lay two other Canes, one at each End, for a Foot Length under it; and so continue to plant, 'till the Ground is full. Into the End of fix or seven Months, which is the Time that they begin to raise their Stalks, they take care to cut for the Preservation of the Sugar, otherwise there would be a great deal lost. These Stalks are what the Savages very much use to make their Bows of.

39. The







39. 200 Manner to which Sugar is drown from the Canes.

THE Americans having out their Canes above the first Joint, and Ponuet. freed them from their Leaves, make them into Bundles, and carry them to the Mill, which is compos'd of three Rollers of an equal Sze, and equally arm'd with Plates of Iron, where the Canes are to pass. The Roller in the Middle is rais'd much higher than the rest, to the End that the two Poles, which are affix'd cross-ways at the Top, and to which the Beasts are yoak'd, may turn about freely, without being hinder'd by the Machine. The great Roller in the Middle is surrounded with a Cog, full of Teeth, which bite upon the Sides of the two other Rollers adjoining to it, which makes them turn about, grind and bruife the Canes, which pass qu te round the great Roller, and come out dry, and squeez'd from all their Juice. If by Accident the Indian, or whoever feed, the Mill with Canes, thould happen to have his Fingers catch'd in the Mill, they must immediately cut off his Arm. left the whole Body should be drawn in and ground to Pieces Therefore as foon as they fee any one have his Finger or Hand catch'd, the Person standing by cuts off his Arm with a Hanger, and he is atterwards cur'd, and kept for other Service. The Juice falling into a Veffel which is b law the Mill, and being drawn off; runs by a little Channel into the first Boiler, which holds about two Hogsheads, where it is heated by a small Fire, and fet a boiling, in order to make a very thick Scum anse: The West-Indians keep this Scum to feed their Cettle with. This Liquor being well foum'd so put into a second Beiler, where they make it boil again, throwing in, from Time to Time, warm Water, in which they have beat up some Eggs. Having been thus purified, they pass it through Strainers; and, after it has has done running, put it into a third Boiler, which is of Brass or Copper, and then again, upon another refining, into, fourth Boiler; and when it begins to cool, and they and it rifes to a Grain, they pass a Scimmer, or whoden Spathula underneath it, from the Right to le Left, to see what Quality the Graining is.

The Sugar being thus ready, while it remains Not, is cast into Moulds, or Earthen Pots, with Holes in their Bottoms, yet shut: At the End of twenty-four Hours, which is the ordinary Time the Sugar takes to incorporate, the Negroes carry the Pots into their Warehouses; and after they have open'd the Holes, and pierced the Sugar,

they fet the Moulds upon little Pots or Jars, in

order to receive the Syrup, or Molosses, which

runs from it. When the Syrup is run from the Sugar, they take it out of the Moulds, and cut it afterwards with a Knife; and this Sugar cut in this Manner, is call of the grey Muscovado Sugar; which, to be in its Perfection, ought to be of a whitish Grey, dry, the least Fat, or smelling of the Fire that may be. This Muscavado is the Basis and Foundation of all the other Sugars sold among us.

It is but little in Use, though very proper to

# Of Cassonade, or Powder Sugar.

The Caffonade is made from the grey Muscavado run again; and, after it has been clarify'd, strain'd and boil'd, and cast into the Moulds, and so prepared as we have been speaking before. After the Syrup is drain'd out, they lay upon the Sugar about an Inch Thickness of Clay, wetted with common Water, that the Moissure which is in the Clay may get through the Sugar, and take away with it whatever fat or bad Matter might remain in it: When it will run no longer, and the Clay at the Top is dry, they take the Sugar out of the Moulds, and cut the Cakes into three Pieces, the Top, the Middle, and the Bottom. which they dry feparately, according to their Finenels. The finest Powder Sugar is that of Brafil, which is extremely white, dry, and well grain'd, of a Violet Tafte and Flavour. The Cassonade, or Powder Sugar, is much in Use among the Confectioners; above all, that of Brafil, by reason that it is less subject to candy; upon which Account the Confectioners value it the

The Sugar, which we improperly call Sugar of feven Pounds Weight, because it as often weighs ten or twelve, is made of the grey Muscavado, soim'd into Loaves, as we have describ'd before. The Sugar of seven Pounds is distinguish'd into three Sorts, to wit, the white, the second, and the last, which is of a browner Colour; the whitei the Sugar is, the better stov'd, grain'd, and di, d the more it is esteem'd. The less the Moulds are, that is, the less the Loaf is made, and the whiter it is, so much the dearer it is.

The Use of this is to make choice Syrups, white Confects, and to preserve Apricots, and the like.

## Of Sugar-Royal, and Demy-Royal.

The Sugar call'd Royal, from its extraordinary Whiteness, is made from the small white Sugar, or Powder-Sugar, of Brasil, melted and cast into a Loaf as the former. This Sugar-Royal ought to be extremely white throughout the Whole; that

is to fay, as fine at the Top as the Bottom, of a clear, compact, finning Grain, notwithflanding easy to break; which is the general Observation of Sugars, that are well bak'd, and of a kindly Sort. We fell besides, another Sort we call Demy-Royal; which is a small Sugar-Loas, very white, and wrapp'd in a blue Paper, which comes from Holland.

The Dutch formerly brought us Sugars of eighteen and twenty Pounds, wrapp'd in Palm-Leaves instead of Paper; for which Reason it was call'd Palm-Sugar, which was a white fat Sugar of a good Sort, and a Violet Taste. We used to have besides another Sugar from the Madeiras, but we have no more of it now, because we have it from several other Islands much better.

### Of Brown Sugar.

This Brown Sugar is one Sort of the Muscavade, which they turn to Powder Sugar, and is made of the Syrup of the Seven-Pound Sugar, after the fame Manner as the others are made. It ought to be of a greyish red Colour, dry, and not finelling of burning; for there is some to be met with so moift, and with so much of the burnt Smell, that it is almost impossible to use it. The Use of the Brown Sugar was formerly very confiderable, in that it ferv'd to put in Clysters: At present several Apothecaries, very improperly, imploy it to make many of their Syrups with, which must be very disgustful, by reason of its nauseous Taste, and its near Alliance to the Molaffes themselves, which some call the Syrup of \*Sugar, and which never ought to be used in Phyfick; great Quantities of it are used in Holland to temper Snuff with, and to fell to poor People instead of Sugar: I have been assured, however, that Molasses are better for distilling Rum than the Muscavado Sugar.

### Of White and Red Sugar-Candy.

The White Sugar-Candy is made of the white Lifton Sugar, melted and boiled to a Candy thus: Diffolve your Sugar in pure Water, then boil it to the Confiftency of a Syrup, which pour into Pots or Veflels, wherein little Sticks have been laid, in order that the Sugar may flick to them during the fffteen Days that it is in the Stove; but the great Care must be to keep the Stove Fire equal during these fifteen Days that it remains there; they afterwards take it out of the Stove to drain and dry it, and then put it up in Boxes for Use.

Chuse this Sugar-Candy white, dry, clear and transparent. The very finest Candy we have

comes from Holland, and it is fold for Four-pence or Five-pence a Pound dearer than that of Tours, Orleans, Paris, and other Places. This Sugar-Candy is effected good to moisten the Breast and cure Rheums.

The Red Sugar-Candy is made the fame Way with the White, except that this is made with brown Musicavade. Both Sorts are better for Rheums, Coughs, Colds, Catarrhs, Asthmas, Wheezings, &c. than common Sugar; because being harder, they take longer Time to melt in the Mouth; and withal keep the Throat and Stomach moister than Sugar does. Put into the Eyes in fine Powder, they take away their Dimness, and heal them being Blood-shot; also they cleanse old Sores, being strew'd gently upon them.

That Red Sugar-Candy is best which is made in Holland, and is the driest and reddest.

# Of Barley-Sugar, White and Amber-colour'd, Sugar of Roles, Pastiles of Portugal, &c.

Barley-Sugar is made either of white Sugar or brown; the first Sort is boil'd 'till the Sugar becomes brittle, and will eafily break after it be When it is boil'd to a Height, cast it upon a Marble, that is first lubricated with Oil of Sweet Almonds; and afterwards work it to a Paste, in any Figure you fancy. The other Sort, improperly call'd Barley-Sugar, is made of Caffonade, or coarse Powder Sugar, clarified and boil'd to a Toughness that will work with your Hands to any Shape, and is commonly made up in little twifted Sticks. This Kind of Sugar is more difficult to make than the other, because of hitting the exact Proportion of boiling it to fuch a Height that they may work it as they please: This ought to be of a fine Amber-Colour, dry, new made, and fuch as does not flick to the Teeth: Some Confectioners, to make it of a fine Colour, stain it with Saffron.

Sugar of Roses is made of white Sugar clarified, and boil'd to a Consistence of Tablets, or little Cakes, in Rose-water, and so cast into shat Form you like best.

The Passiles, or Portugal Lozenges, are made the same Way, of the finest Sugar that on be had, made into a Passe with Gum Tragacana, to which is added some Ambergrese, or any Persume, most grateful to the Maker's Fancy.

## Of Sugar-Plums.

There are infinite Variety of Flowers, Seeds, Berries, Kernels, Plums, and the like, which are, by the Confectioners, cover'd with Sugar, and bear the Name of Sugar-Plums, which would would be endless to fet down, and are too frivolous for a Work of this Nature: The most common of the Shops are Carraway-Confects, Coriander, and Nonpareille, which is nothing but Orrice-Powder, cover'd with Sugar; and what is much in Vogue at Paris is green Anise: Besides these, we have Almond-Confects, Chocolate, Coffee, Barberries, Pistachia Nuts. &c. Orange Chips and Flowers, Lemon-Peel, Cinnamon, Cloves, and many other Roots, Barks, Fruits, Flowers, &c. too numerous to speak of, together with Pastes, liquid Confections, and the like; many of which are useful in the Apothecaries Shops, as green Ginger, Oranges, Jelly of Barberries, &c.

### Of Spirit and Oil of Sugar.

Belide all the other Uses that we make of Sugar, there is an acid Spirit drawn from it, by Chymistry, with the Help of Sal Armoniack, which, after Rectification, is a powerful Aperitive, and proper for many Diseases, as the Gravel, Dropsy and Dysentery. The Dose is as much as is sufficient to make an agreeable Acidity in any convenient Liquor proper to the Distemper. As the Oil of Sugar, even after Rectification, is a black flinking Oil, I shall direct you to another Sort. which, ftrictly speaking, is not an Oil, but rather a Liquor of Sugar, per Deliquium. This is made by putting Sugar into a hard Egg, and fetting it in a cold Place, to run into a Liquor, the fame Way that Oil of Myrth is made; and is used to beautify the Face, or inwardly to remove Pains in the Stomach.

Sugar, in Latin Saccharum, or Suc-Lemery. charum, Zaccarum, or Zuccharum, is an effential Salt, of a Kind of Reed, call'd Arundo Saccharifera, or the Sugar-Gane, which grows plentifully in many Parts of the Indies, as in Brazil, and many other Places. This Plant bears on each Joint a Cane of five or fix Feet high, adorn'd with long, straight, green Leaves, and carries on its Top a Silver-colour'd Flo ver, like a Plume of Feathers.

The Juice of the Canes is made by pressing then through the Rowlers of a Mill, from whe ce there runs a great Quantity of sweet plant Juice, which being put into Boilers, the cry Part is, by the Force of the Fire, evaporated, 'till it comes to a Consistency; after which they cast it into a Mixture made of certain Ingredients, fit to cleanse and prepare it for graining. All the Time it is boiling, with large Copper Scummers they take off the Scum, which constantly rises in great Quantities, until it be fit to empty into Coolers, viz. 'till it arrives to its just Body: From the Coolers, it is again shifted into

Earthen Pots, with Holes in their Bottoms, and other Pots they call Drips, under them, for receiving the Molosses; which, in about a Month's Time, will be separated from that which afterwards is call'd Muscawado Sugar, being of a pale yellowish Colour; this is then knock'd out of the Pots, and put into Casks, or Hogsheads, for Transportation.

The first Kind of Molosses is either boil'd up again to draw from it a Kind of duskish, palegrey Sugar, call'd Pancels, or sent in Casks for England. From this Sugar there drips a second Sort of Molosses, which, with the Scum that arises in all the Boilings, together with the Washings of the Boilers, Coolers, Pots and other Instruments, is preserv'd in great Cisterns, where it serments, from which they distill that samous Spirit call'd Rum, a noble Liquor, not at all inserior in Strength to French Brandy, nor yet in Goodness or medical Virtues, the Flavour or Palatableness being set aside, having an Empyreuma, from a fortid Oil it acquires in the Distillation.

The next Thing to be consider'd is, the Refining of Sugar, to wit, the Muscavado Sugar: which is thus: They put it into refining Coppers, mix'd with Lime-Water, where, as it boils over a gentle Fire, much Scum will arise, which is taken off constantly 'till it comes to a sufficient Consistency for mixing it with the Whites of Eggs, well beaten up, in order to clarify it; this being done, it is boil'd up to a proper Height for refin'd Sugar, and so turn'd off into Coolers, from whence it is put into fuch Draining-pots as aforemention'd, with their Drips: When those Pots have flood draining or dripping eight or ten Days, then Clay, properly temper'd, is put upon the Pots, which is renew'd as often as Occasion requires: This forces down all the Moloffes; fo that in feven or eight Weeks Time these Sugars will be fit for Calking.

These Molosses, thus proceeding from refin'd Sugar, are boil'd up again, and all the former Work repeated; from whence comes another Sort of white Sugar, call'd Baftard White: From this Sugar there drips a second Sort of Molosses, fit for nothing but the Still to make Rum of; it is also to be observ'd, that little or nothing is wasted in the Refining, but you have it some Way or another; for as much as the fine Sugar wants of its first Weight, you have it in the Scum and the Molosses, or Recrement running from After this Elaboration of Sugar for refining it is over, they put up in Casks or Hogsheads that which is call'd Powder-Sugar, or make into Loaves what they call Loaf-Sugar; both of which are esteem'd in Goodness according to the Number of Times they have been refin'd.

2

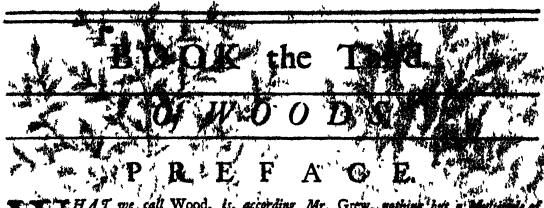
.. When Sugar has been but once refin'd, it is a little fat or oily: Now to refine it farther, it is dissolv'd again in Lime-Water, and boil'd as before directed, taking off the Scum all the while, Gr. The Sweetness Sugar has, is thought to proceed from an effential, acid Salt, mix'd with forme oily Particles, of which it confifts; for if by Distillation we separate the oily Parts from the saline, neither of them will be sweet, but the faline will be acid, and the Oil insipid upon the Tongue, because it makes little or no Impression upon the Nerve of Talling; but when the Acid is entirely mix'd with it, the Edges or Points of the Acid penetrate the Pores of the guitatory Nerve, and, by opening them, carry in the oily Particles, and make them also penetrate and irritate the Nerve, whereby the Sweetness of the Taffe is produced.

The Powder-Sugar, or that which is less refin'd, makes a sweeter Impression upon the Tongue than the Loaf-Sugar, or that which is more refin'd; because it contains more oily or fat Particles, whereby it remains the longer upon the Taste: This makes some prefer the coarser before the finer, for Use and Swestening. Sugar was first known or produced in the East-Indies, afterwards in Barbary and the African Islands, as the Madeiras, Canaries, &c. then in the West-Indies, 23 Jamaica, Barbadoes, Nevis, Antigua, Montferrat, as also in the Spanish Indies; lastly in Europe, as Spain and Portugal, but not in that Plenty as it is produced in the West-Indies. If you make choice of it from the Place, that from the Madeiras was formerly accounted the best; that from the Canaries next, and that from St. Thomas's last; but now our fine Jamaica and Barbadees Sugar is inferior to none; and next to them is reckon'd the Lifton Sugar, which is the fatter, and not so white. If you chuse it for Colour, the whitest is the best; then the next to White is that of the Cream Colour, or pale Yellow; and lastly, the Red. If you chuse it from the Making, the treble resin'd is the best, and that which is form'd into the Loas, the whitest of which will look like the driven Snow.

It is good for the Breast and Lungs, to smooth their Roughness, take away Althma's, Hoarseness, ease Coughing, and to attenuate and cut tough Flegm, afflicting the Fibres of thole Parts. It is very profitable for the Kidnies and Bladder, and in all the Cases aforementioned; but it is reputed bad for such as are troubled with Vapours and Hysterick Fits, and therefore such Persons ought to avoid the Use of it. Refin'd Sugar is the sharper, and better to attenuate, cut and cleanfe; but the unrefin'd to levigate and lenify, and so the better for the Lungs; but being constantly used, rots and decays the Teeth, and makes the Gums scorbu-There are many Preparations, besides butick. Confects and Sweet-Meats, made of Sugar; the chief of which are, first, Sugar of Roses; 2dly, Sugar of Violets; 3dly, Tincture and Liquor, acid Spirit and Oil of Sugar, Sugar Penids, Essence of Sugar, and the like.

[The Plant which produces Sugar is the Arundo Saccharifera. C. B. Pin. 18. Arunda Viba Brafilienfibus dicta. P.f. 1648. Tacomaræ frue Arundo Saccharifera Ejufd. 1658. It is of a middle Nature, between the arundinaceous and mileaceous Plants. There is another Sugar call'd Saccharum Aternum, Maple Sugar, which is the Product of Canada and New-England, in which Countries the Natives collect the Juice of Maple Trees by Incision, and evaporate it to the Consistence of Sugar, which, while it remains unctuous, is better for internal Use than any other Kind, and the famous Syrup of Maiden-Hair of Candia is made with it: As it is brought to us it is of a greyish Colour, and tastes like other Sugar. The Inhabitants from this Sugar make Brandy, Vinegar, and a Liquor which is their common Drink.]

# The End of the Book of ROOTS.



very small Pipes, or bollow Fibres, some of which raise themselves event and form perfect Circles; and others run from the Circumference to the Centre, and there mutually cross one another, like the Lines of Longitude and Latitude on a Globe, or like a Weaver's Threads, extended both in Length and Breadth, and interwoven together. In Time these take their Nourishment from the Juices of the Earth, become hard and form the Bodies of Trees; which are more or less hard and heavy as they are ranged more or less close to one another, and more or less fill'd with Resin. The only Woods sold in the Shops are those used in Medicine, in Dying, or in Inlaying, of which only I shall speaks the others being not my Business to this Work.

## 1. Of Wood of Aloes,

F all the Woods fold in the Pomet. Shops, we have none proceprethan the true Wood of Most; or Mysister; upon which Account is it very little known, and every one is liable to mistake the Wood, which makes ir easy to be counterseited; It is indeed a difficult Matter to know it positively, it being described to differently by a flerent Authors: And I cannot think any more militaken than shole who write like M. de Faretiere, who says that Alors is a large Tree that grown in the India very high; that the Arunk is of the Thickness of a Man's Thigh, on the Head of which is placed a walt Heap of thick indented Leaves, large at the Bottom, which narrow themselves to a Point, and are four Feet long. That the Flower is red, intermust with yellow, and double like a Julyflewer; and is supported by little Branches which arise from the Trunk, with the Leaves, among which they are hid: That from the faid Flower comes a I ruit, round like a large Fea, white and red: And that they draw a Juice from these Leaves by slitting them with a Knife, which they put up in bhells of Gourds. And that when this is dried in

the Sun it appears a Kind of Resin: That the Wood is spotted, scented and bitter, and the Bark is so curious, that it resembles a Skin that is of a changeable Colour.

There are several Sorts of it, and the best is the deallochum of bodia, which comes from Calecut. The finest is the black Kind, of a change-able Colour, full, basy, folid and thick, which is not at all whichly, and is difficult to set on fire. I know not where M. Rarein's had the Account before recited, which conformes the Plant which produces the Man with the true Lignum Alone Tree.

Others lay, the Reason we have not the true Aloes Wood is, that it grows no where but in the terrestrial Paradise, and that it is impossible to have it but by the Means of Floods: And others, because it is not produced among us, except in Desarts and upon macceffible Mountains; not only so from their Height, but because of the wild Beasts that inhabit them, as the Lion, the Tiger, the Panther and the like; besides a thousand other idle Stories that are told about it, too long to recount here; instead of which I shall declare what I have learn'd from some of the Retinue of the Embassiadors to Sions, who brought some of this Wood as a Present to the late King of France, Lewis the Fourteenth. Well wrought as un-

wrought; among the rest an Ewer, with its Salver, proper to wash Hands in, made at Siam, after the Mode of that Country. This Bason, though of Wood, is more valued than if it had been of mally Gold. They fay that the true Lignum Aloes Tree grows in Cochinchina, in the Kingdom of Las and in China, and is of the Size and Bhape of the Olive Tree, having Leaves something of the same Sort, among which grows a little red Fruit, like our Cherry. A great deal of Lignum Aless is brought to Surat, the most resinous of which is the most valued; it is diflinguish'd by the Bigness or Smallness of the Pieces.

It is observable, that the Trunk of this Tree is of three Colours, which are no other than different Parts of the same Substance: The first Wood, which lies immediately under the Bark, is of a black Colour, folid, heavy, and almost like black Ebony; the Portuguese call this Eagle-Weed. The Second, which is a light veiny Wood, like rotton Wood, and of a tann'd Colour, is what we call Calambeur, or the true Wood of Aless. The third Sort, which is the Heart, is the precious Tamback, or Calamback Wood; but the great Scarcity and high Price of it is the Reason why I shall say no more of it, having never seen any of it.

We ought to chuse the Wood of a shining Dye. and of a light Yellow within, bitter in Taffe, ef-pecially when it is held some Time in the Mouth, from whence it takes the Name of Aloes-Wood, because it has a Bitterness like that of the Aloes. It should be light and porous, like rotten Wood; and when put into the Fire, burn like Wax and

vield a sweet Smell.

This Wood of Aloes has no Use that I know of but in Phyfick. It is very aromatick, cordial and cephalick, as also a Destroyer of Worms: Its principal Use is in some Galenical Compositions. As to the Eagle-Wood, it is of no Use in France; it serves the Indians to make their small Wares with and their Weapons, and it is so scarce in France that it is not easy to find any of it; which is quite contrary to the Opinion of those who have writ of it, and say that it is very common. Bcfides the Columback-Wood, or true Aloes, we have Quantities enough of other Kinds brought to us, which bear the same Name; but as it is impossible for me to discover all the Differences, I shall inform you, that you ought to reject all others whatfoever that are not the Wood we have been speaking of, which is entirely different from others, both in Shape and Figure, in that the pretended Woods of Alees are in great heavy Pieces, fometimes Red, fometimes Green, and likewise of feveral other Colours; and what makes it

easier to know the Difference is, that the true Columbank is commonly in flat light Pieces. Some People will have it that the Abor Vitæ, or Thuya, which is at Fontainebleau, and in the Royal Garden at Paris, is the Tree that yields the Moes-Wood; but I have prov'd it otherwise, as I had one of those Trees three Years, at the End of which Time it died, and I had it taken up; after having exposed it to the Air some Time, the ftrong Smell and Taste it had while growing was quite loft, and it became extreamly light, of an insipid Taste, and white without and within.

Aloes, Agallochum, Xyloaloes, or Wood of Aloes, is brought from Bantam in Lemery. the East-Indies, where they call it Columback. It comes to us in Chips, and is of a most fragrant Smell and darkish Colour; the knotty, refinous and blackish Sort, which is many times full of black Refin, like Aloes, is reckon'd the best; or that which is of blackish Purple, with Ashcolour'd Veins, of a bitter Tafte and heavy: The chief Sign of its Goodness is, that the Chips being put into Water will fwim, and when burning on Fire-Coals they will sweat or fry, afford a sweet Scent, and leave Bubbles behind them, not eafily vanishing. It is hot and dry, cephalick, neurotick, fromachick, cardiack, alexipharmick, strengthens the Brain, Heart, Nerves, Spirits and whole Body; is excellent against Faintings and Swoonings, and kills Worms by its Bitternets. Dose in Powder, half a Dram to a Dram. The Chymical Oil is I kewise used like that of Rhodium, and sometimes internally to the same Purposes as the Wood.

[This is the Lignum feu Arbor fragrans Simmenfibus Kiffina, Latinis Arbor Aquila & Aloes di Ela cujus fragrans Lignum appellutur Agallochum. Kemp. Amen. 903. Agallochum verum. Eph. Germ. Dec. 2. p. 74. We account that the best which Dec. 2. p. 74. We account that the best which is of a blackish Purple Colour, and so light as to fwim upon Water; but there is scarce any such now to be found; for the best we meet with will fink in Water. The Juice of this Wood, while growing, is poisonous and caustick, and often deprives the People employ'd in cutting it of their Sight. It has been greatly effeem'd, but of late is grown into Disuse.]

## 2. Of Asphaltum, or Rose-Wood.

UR Asphaltum is a Wood which was as little known to the An- Pomet. tient, as the the true Alres-Wood, and which at present we only know by Relations, which we cannot absolutely depend upon.

I have never been able, with all the Diligence I could use, to get clearly at the Truth, and can

therefore

therefore only declare what I have learn'd, which is, that Afghalassen is the stringy Pieces of a small Chine's Tree, fornething like Calemba; they are solid, of a reddish Brown, sometimes mark'd with whitish Streaks, hard and bituminous, thicker, of a looser Texture, and less sirm than the Lignum Aless, of a bitterish, fat and resnous Taste, and weak Smell.

The Shrub is thorny, it grows on the Mountains, and is by some accounted poisonous.

There are several Species of the Apphalatum describ'd by the Antients which are not to be found, and are hardly known among us. The Apphalatum Wood of the Antients was used in perfum'd Ointments; they boil'd the Wood in Oil, by which the Resin was extracted, and then used the Oil.

Asphalatum, according to the Accounts of the Chinese, is gather'd in the same Manner as the Lignum Aloes, for they take only the more fra-

grant and refinous Pieces.

There are three Sorts of Wood that bear this Name. The first is a blackish Wood, which I believe to be the true Eagle-Wood. The second is a Wood something bitter, heavy, oily, full of Veins of different Colours, which, all mix'd together, make it a reddish Wood: It is cover'd with a grey Bark, thick and very rugged. As to the Figure of the said Tree, the Leaves, Flowers, Fruit, and Country where it grows, I have been able to learn nothing. Whether this be the salse or true Aspalathum, it is what is most receiv'd for genuine, by those who are supposed to know it the best, and is what we commonly sell.

The third Afphalatum-Wood is as known and common among us, as the two before mention'd are unknown and scarce. This third Sort is what we call Rhodium, or Rose-Wood, because it has a Smell altogether resembling that of Roses. The Rose-Wood is of a pale brown Colour; it is brought from several Parts of the Levant, but chiefly from the Isle of Rhodes and Cyprus, from whence it takes the Name of Rose or Cyprus-

Wood.

Father Tertre, however, will have it that there is a Difference between the Rose and Cyprus-Wood; he says, that which is call'd Rose-Wood in Guadaloupa, is properly that which the Inhabitants of Martinico call Cyprus-Wood. It is very certain that there are two Sorts of Rose-Wood which we confound together by that Name, without making use of that of Cyprus. The two Trees so exactly resemble one another, in Height, Size, Bark, Leaves, Flowers and Smell, that most Part of the Inhabitants mistake one for the other: I have, notwithstanding, seen some curious People of Guadaloupa, who have call'd this Wood, which

the Inhabitants of Martinics call Referenced; because the Heart of the Wood is flain'd like Marble, with White, Black and Yellow, which is the only Distinction I could observe. This Tree grows very high and straight, with long Leaves like the Chefaut, but more pliant hairy and whiter; it bears large Clusters of small white Flowers, and after them little smooth black Seeds; the Bark of the Wood is whittish, and almost like the young Oak; in working on it, it sends forth a Smell so sweet that the Rose cannot compare with it. This Wood loses its Smell in time, but it recovers it again upon being fresh cut, or strongly rubb'd one Piece against another. It is very good to build withal. It ought to chosen new, dry, of a yellowish brown Colour and a Rose-like Smell, and in the largest and evenest Pieces that may be.

This Wood is used to make Beads of, and is of some Use in Physick, by reason of its fine Smell; it is serviceable to the Distillers to make Rose-Water, or at least to give their Rose-Water a good Scent. The Surgeons and Barbers use it in Decoctions and Tinctures for their several Purposes. Some People employ this like Yellow Sanders, and after it is reduced to Powder mix it up in Pastiles for burning. The Dutch draw a white Oil from it very odoriferous, which they transport abroad under the Name of Oil of Rhodiam, and which we fell upon feveral Occasions, as to the Perfumers and others. Tis observable that this Oil, when new, is like Oil of Olive; but after some Time it becomes of a dark Red. The Wood, by Distillation, yields a red Spirit, and a black feetid Oil, which is proper for curing of Scabs and Tetters.

There are several Sorts of the Aspalathum that are not distinguishable but Lemery. by the Curious, as the Aloes-Wood, that is call'd the Eagle; and the Lignum Rhodium, which is so call'd, not that it bears Roses, or is a Rose-Tree, but from the Flavour and Fragrancy of the Wood, and the odoriferous Oil it yields. This is brought from the Levant, and some from the Canaries; the best is the fattest, or most oily, of a deep yellow Colour, inclining to Red, strong fcented if broken, and of a compact heavy Substance. This Wood contains two profitable Bodies, the one spiritous and watry, and the other oily and fulphureous; both which are very fubtile and volatile. To make the Oil, chuse the weightiest and best scented Wood, rasp'd finely, of which take four Pounds; Saltpeter one Pound; infuse them in Rain-Water eight or ten Days, and draw off the Oil in proper Veffels. at the same Time a Water drawn from thence, which may be used as Rose-Water for Persumers,

and

for a Vehicle where proper. The Oil, which is clear, fair, yellowish, and of a fragrant Smell, is safed inwardly against Obstructions in the Kidneys or Bladder, freeing them from Sand, Gravel and slimy Matter, that load and stop up the Paffages. You may make it into an Elsesecharum with refined Sugar, and then dislove it in its own Water, or any proper Distratick. It is used with good Success in Gargles, and to cleanse and cure Ulors in the Mouth, or other Parts of the Body. It is cephalick, neurotick, cardiack, antispafmodick, and arthitick, and may be given from three Drops to sen or twelve. This Oil, besides all its internal Uses, is accounted one of the strongest vegetable Persumes, and holds its Odour the longest.

[This, and not the Lignum Aloes, is the true Calambac-Wood; it is the Afpalathum, Mon. Exot. 7. Agailectum Prastantissimum. Jons. Dendro. 460. It is brought to us from the East-Indies and the Canaries. The Antients varied so much from one another in their Accounts of this Wood, that it is probable they have described different Woods under this Name. It has been much in Esteem, but is now never used unless in

the Oil to fcent Pomatums, &c.]

## 3. Of Sanders.

Pence. Woods of different Colours, Smell and Figure; all three, as I have been affured coming from the fame Tree, and having no other Difference than from the different Countries where they grow. This Tree grows about the Height of our Wailnut-Tree, having Leaves like the Mastich; it bears a small Fruit, of the Size of a Cherry, green at first, and black when size, after which it easily falls off the Tree, is of an insipid Taste and no Value.

The yellow Sanders is brought to us from China and Siam in Billets, freed from the Bark; the French, when they return'd from Siam in 1686, brought with them a good Quantity. Chuie the heaviest Wood, of a good Scent and yellow, from whence it is call'd Citrine Sanders, which fignifies yellow; but take Care, at the same Time, you be not imposted on with the Citron Wood, which is often fold in its Stead. The yellow Sanders is most used in Physick, and by the Persumers.

The white Sanders is something like the yellow, but not having the Colour or the Smell, it makes a vast Disserence. This Wood is brought in Billets, divested of its Bark, from the life of Timer. Chuse such as is heaviest, white, and of the best Smell you can get. It is used in Phylick

as the yellow.

The red Samlers is brought to us in thick long Billets, from the Massitime Places on the Coast of of Cormandel. Chuse that which is blackish without, of a deep red within, hard to cleave, of an insipid Taste, and almost no Smell; and take care you do not get Coral-Wood, which is often sold in its place, which I shall mention by and by.

The Sanders are something aftringent, especially the red; they sortify the Heart and Stomach, and purify the Blood, they are given inwardly in Prylans, or in Powder from half a Dram to a Dram, and are Ingredients in many Compositions.

There is beside these a fourth Sort of Sanders, call'd Taffety-Sanders, or Sanders of Constantinople, which serves to give a red Stain, boil'd in Water with any Acids; like the red.

### Of the Citron-Wood.

The Citron-Wood, which the Americans call Candle-Wood, because being cut into Splinters it gives a Light, which they use to light themselves by, is the Trunk of a large thick Tree, that grows very common in the Leeward-Islands. This Tree is very beautiful to the Eye, having many large and long Branches, full of Leaves, like those of the Bay-Tree, but bigger, and of a more thining green; and Flowers like the Orange, of a Tessamine Smell, after which grow little black Fruit, of the Size of Pepper. It is the Trunk of this Tree, that the Reverend Father Du Ter tre falfly imagin'd to be the yellow Sanders, and which afterwards gave Occasion to certain Druggifts at Rouen to buy of the Company, and fell it boldly again for the true yellow Sanders, to those who understood it not, or would buy with-out seeing it, or upon their Words, for the true Wood; or they would fometimes shew a Sample of the true yellow Sanders of the Indies, and afterwards sell this Citron, or salse Sanders. The Cheat of this is easy to discover, in that the true Sanders taftes and finells fweet and agreeable, and is but moderately heavy and refinous; but, on the contrary, the Citron-Wood, which is heavy and oily, has a strong Smell, like the Citron, from whence it derives its Name; and further, the Billets of the true Sanders weigh not above a hundred Pounds, and those, of the Citron near a thouland. This Wood is of no Use in Physick, but is very uleful to work into proper Utenfils; for after it has been exposed some Time in the Air, it will look like polish'd Cocoa. The Gum of the Citron-Wood is very fragrant; and what is most remarkable, is, that the older the Tices, the fweeter is the Gum.

This Wood likewife bears the Name of Tessamine-Wood, There grows, besides, in these Isles, another Candle-Wood, which has fuch Leaves, Flowers and Fruit as the Citron-Wood, except that the Flowers are more fat, much thicker and rounder; but as this Wood comes not to us, I shall say nothing further, but that Father Du Tortes fays, that this Tree is fcarce, and grows no where but on the Sex-Side. and believes it to be a Kind of Alou-Wood. He observes likewife, that this Tree yields a very odoriferous Gum, and that the older the Tree is, the better it smells; and that the Savages make no other Use of it but for Lights; except that they use the inner Rind of the Bark, from whence they press a Juice, valued by them as a sovereign Remedy for Inflammations of the Eyes.

### Of Coral-Wood.

Besides the Candle-Wood, we have brought to us, from the Leeward-Islands, a certain red Wood, which they call Coral-Wood: It is with this Wood they counterfeit the true red Sanders; but that which makes it not difficult to discover the Difference is, that the Coral-Wood is of a shining Red, light and stringy; but the true Sanders is of a deep Red, without Threads, and very heavy.

The Americans use the Coral-Wood for several Sorts of Work. Besides this, in these Isles there grow two other Kinds of Trees, which bear the Name of Coral, because their Fruit are red, like Coral, except that on the Right Side of the Bud they have a little black Spot. This Fruit is what we call and sell by the Name of the red American Pease, which are extremely bitter, and some pretend that these Fruits, moissen'd with the Juice of Citrons, have the Quality of soldering Gold and Silver, like Borax.

Father Du Tertre says, that there are so many red Woods in these Isles, that in every ten Leagues they are sound of different Colours, some deeper, some paler, and that they are all very sull, heavy, solid, and excellent for making the best Joyners Work; the Wood being, for the most Part, not subject to decay.

Santalum Citrinum, Album vel Ru-Lemery. brum, the yellow, white, or red Sanders, are exotick Woods, brought from both the Indies, of a very fragrant and sweet Smell. The yellow is to be chose before the rest, and that which is of the most agreeable Odour, heavy and knotty. Both this and the white are used in Faintings, Swoonings, Palpitation of the Heart, Obstructions of the Liver and Spleen. They are good against vomiting, and dry up Catarrhs; outwardly the Fume prevails against the Headach, stops Fluxes and Rheums of the Head, with other preternatural Defluctions.

The red Sanders is also brought from the Indies, being a red heavy Wood, and commonly sold in the Apothecaries Shops in Powder: It is cooling and more astringent than any of the rest; is used in Catarrha, to stay thin Rheuma salling down upon the Lungs, and to abate the Heat of Fevers, to stop Fluxes, and the Prostovium seminii, with the Gonorrhea in either Sex: But the chief Use of it, this Day, among us, is to colour Medicines with, as Lucatellus Balsam, and other Balsams, Tinctures, and the like.

[It is generally supposed that the white and yellow Sanders are the Wood of the same Tree, the inner Part or Heart being the Yellow, and the Outer the White, though there are some who say they are the Wood of different Trees. They are the Santalum Album and Citrinum of Authors. The Tree which is believ'd to produce them both, has Leaves like the Tamarind Tree, composed of a Multitude of small Leaves, set on both Sides of one Middle Rib; the Flowers are of a bluish Black, and the Fruit of the Bigness of a Cherry. They are both brought to us from the East-Indies.

The Red is a Species of the Brazil Wood, it is brought to us from the East-Indies; the Tree which bears it grows beyond the Ganges. Its Leaves are like those of the Ash, and its Fruit contain'd in Pods, thick, bivalve, broad at the End, and the Seed itself oblong.

The Labourers who cut this Wood are often feiz'd with malignant Fevers and Deliria of a very fingular Kind, the affected Person generally imitating the Actions of his Trade: And they have also a Fames Canina, of a very terrible Kind.

## 4. Of Nephritick Wood.

THE Nephritick Wood is brought to us from New-Spain, chiefly from Pemet. the Kingdom of Mexico, where it is call'd Coult and Tlapalcypatly, and by us Nephritick, by reason it is a sovereign Remedy in Stone, Gravel, and Difficulty of Urine. It is a Tree like our Pear-Tree, having Leaves like Chich-Pease, but much less.

Chuse the Wood well freed from the thick Bark, which is of a bitterish Taste, and yellowish red, and being put into a little cold Water, strikes a fine Sky-colour'd blue, which is a certain Sign of its being true. They sell in the room of this a red Ebony, or Granadilla, which is readily distinguish'd from the other, in that it is of a

deepe

deeper red, and by infuling it in Water, it gives a yellow Colour, like another Wood we have brought all seems from the many and Brazil, the Name of which we have not set learn'd; however, was hight to relect a Seek of Woods that and fold for the true Waterlies, is show will not yield a blue. Include: This Wood, insufed in Water like freelies with the Brink, and to mix in the Wine. These was specified at to the Vittan of the Woods but radio water thereto, with a state like of Woods but radio. Water thereto, with a state like of Woods but radio. It is taken good for Observations of the Liver and Spleen, and fed in Wane or given in Frifans, or in Powler, in any proper Leguer; the Dose deeper red, and by infusing it in Water, it gives

or in Rowder, in any proper Liquer; the Dole is from half a Dram to a Dram in Powder, and from two Brams to had an Ounce, or more, in Infusion.

Lemery. Out Knots, white without, and blueish within, which, by Insusion, makes a fky-colour'd Liquor; therefore, to avoid being deceiv'd when you have it, scrape fome of the inner Parts of the Wood, put it into Water, and let it fland four or five Hours; if it turns the Water into a blueish Tincture, it is right and good; but if not, and of a yellow Colour, it is false. It grows in America, and is brought from Mexico, and other Places of the Spanish West-Indies. It is called Mophristicum, because it is a Specificle in Differies of the Reins and Bladder. Schroder lays, it grows like a Pear-Tree, and is a Kind of Ash. It is not and dry, opens Obstructions of the Liver, Spleen, Reins and Womb; cures all storpinges of Urine, whether in the Kidneys, Ureters, or Bladder, bringing away Sand, Gravel, Same, or other tartarous Matter generated in those Parts.

This is the Wood of the Balanus myrepfica five glans Unguentaria. G. Etn. 1433. Nux Ben sive Glans Unguentaria. Park. 238. It grows in both the Indies; the Leaves are like those of the Ash, but of a deeper green; the Flower five leav'd; the Fruit is Kind of trivalve Hulk, full of a white firm Sufflance, enclosing triangular Seeds. The Wood is reddish when fresh, but turns brown and letes its Virtue in keeping. The Infusion of it seed in a Vial between the Eye and the Sun, if yellow, and held so as to keep the Eye between the Sun and it, is of a beautiful blue; the true Wood, therefore, may be rejected for staining the Water yellow, only because it is view'd in a wrong Light. The Wood is now not much used in Medicine. The Oil, which we call Oil of Ben, which is brought to us

from Italy, is made by Expression from the Fruit of this Tree, which is the Ren Nutt of the Shops.]

# 5. Of Bentific, or Maltick-Wood,

THE Local his a Tree which has Leaves like Adverte, impany which it bears Flowers, which produce that Berries, in Clusters, green at first, and that the literature, as they ripen, there likewise grows as the liquid fornetimes, a little Husk or Bay, which Liquid, from which little flying Inflore the contraction, as from the Scarlet Grain, or Kernigs-Berry.

These Trees are part common in Egypt and the Indies, were particularly the life of Chio, where they are so infiniteiously cultivated and watch'd, that a Man who dies one of them down. whether designedly or not even tho' he be the Owner, has his Hand cut off for the Offence, unless the Tree was old and past Service.

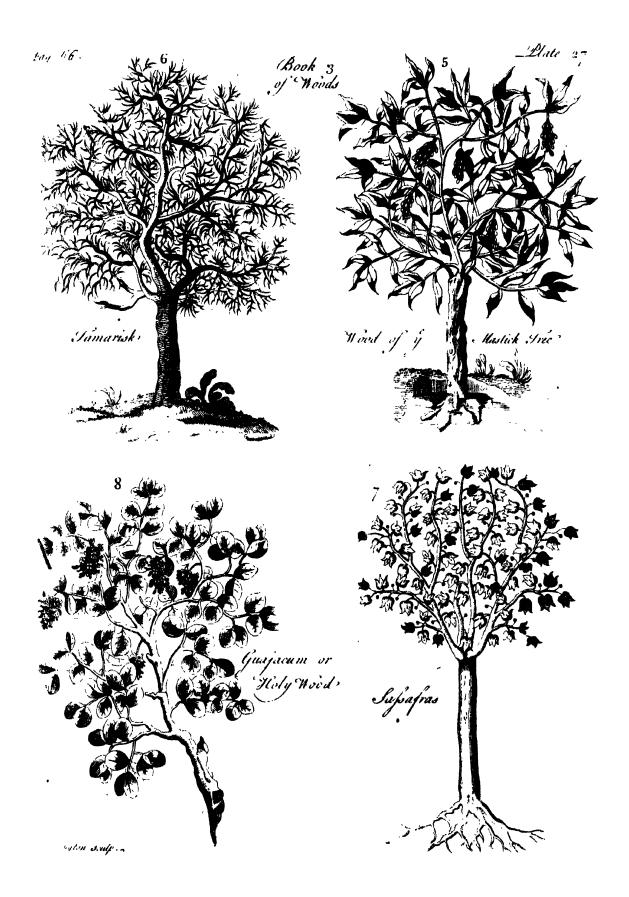
It is from this Tree that the Mastich runs, which I shall speak of presently. They plant a great many of thele Trees in Italy, and the Italians make an Oil of the Berries, after the fame Manner as we do the Oil of Bay-berries. This is used to the same Intentions as the Leaf and the Wood; the last of which they work into Tooth-pickers in Provence and Languidec.

Chuse your Lentisk-Wood heavy, compact, and firm, that is, tough, or hard to break, grey without and white within, of an aftringent Tafte, and adorn'd with Leures, if possible.

### Of Mattick in Tear.

The Mastick in Tear, so call'd to distinguish it from that made of Refin, &c. is a refinous Gum, which drops during the great Heats, without Incison, from the large Branches, and the Trunk of the Lantifle; and sometimes likewife, after having been cut, the Tears fall from the Tree into a Receiver fet for that Purpose.

Chuse such as is in the largest Tears, and which, being chew'd, becomes like white Wax. The best is that of Chip, being larger and of a more balfamick Taffe, than that which is brought to us from the Levant, by the Way of Marfeilles, which is almost the only sort they have in France. Mastick is much used in Physick, and, among other Things to ease the Tooth ach, and is used to feveral other Purpoles, as the making of Varnish, &c. The People of the Levent-Trade deal ill with us, particularly in mixing their Mafick so as the worst lies at the Bottom and the best at the Top; but they will not fell the one without the other.



Lentiscus, the Lentisk, is a Tree full Lemery. of Branches, fometimes large and fometimes small, which are pliant, flexible, and cover'd with an Ash-colour'd Bark, The Leaves are like those of the Myrtle, ranged by Pairs on the Side, and at last terminate with a fingle Leaf, always green, of a ffrong Smell, but not at all disagreeable; of a smart, aftringent Take: There grow oftentimes upon the Leaves certain little Bags or Bladders, fill'd with a Liquor. The Flowers grow upon Stalks arifing from the Leaves like Grapes, reddiff in Colour, tending towards a Purple; from whence arises the Fruit, which are small round Berries, black when they are ripe, and of an acid Taste, in each of which is contain'd a little longish Kernel, hard and black, having a white or green Pith in it. The Wood is brought dry to us, and should be chose fresh, difficult to break, heavy, and not subject to be carious or spongy: It contains a great deal of Oil, Flegm, and likewise effential and fix'd Salt; is aftringent and cordial, relists Poison, and is excellent to strengthen and preserve the Gums.

The Refina Lentisci, or Massick, is produced from this Tree, growing in Syria, &c. and brought to us out of Turky, from Smyrna and Aleppo; but the best is from Chie, which is of a light Colour, or white yellow, clear, and almost transparent, free from Dross or Filth, in Grains. Tears, or Drops, and sweet-scented, bright, pure, and friable, being eafily reduced to Powder: It is a Gum-Rofin, faid, by some, to come from the same Tree with the Chio Turpentine. It is fometimes adulterated with Frankincense, and Rosin of the Pine-Tree; but the Smell will easily discover the Cheat. The green-colour'd, blue, and impure, are not good; and the black, like Bitumen, is nought. It is hot and dry, subasstringent, and strengthens the Stomach and Head. and is chiefly used against Vomitings, Loathing, and Fluxes of the Bowels. It corrects tharp Purges, hinders Vapours arising from the Sto-mach, which hurt the Head, strengthens the Nerves, cures spitting of Blood, Coughs, Colds, Catarrhs, and a stinking Breath. By chewing, it draws away Flegm from the Brain, and is used in a Plaister to the Temples for the Tooth-ach; in a Cataplasm for the Stomach, and as a Dentifrice for the Teeth. Dose, a Dram or two Drams in Powder, for the Fhor Albus, or Gonorrhæa.

[The Tree is the Lentiscus ex Chio ex qua fluit Masticho. Ind. Med. 73. Lentiscus vera ex Moula Chio cortice & soliis suscis. Cat. Hort. Ams. 192. It is common in the Island of Chios, it slowers in May and June; the Leaves are pinnated like the

Ash, and ever green; the Flowers stamineous, and growing at the Insertions of the Leaves. It is an Error to think this the same with the common Lentisk, or Massick-Tree, as it is call'd.

The Wood comes over in slender knotty Pieces, but is seldom used now. The Resin or Mastich of the Shops is whitish when new, and grows yellower by Age. It is so much of the Turpentine Kind, as to deterge, and pass by Urine, as appears manisestly by its Scent.

### 6. Of Tamarisk.

THE Tamarifk is a Tree of a moderate Size, which grows plentifully in Languedoc, having very small Leaves, and the Fruit in Clusters, of a blackish Colour, which the Dyers use instead of Galls.

Chuse the Tamarisk-Wood with the Bark, white without and within, of almost an insipid Taste, and without any Smell. They use it for Diseases of the Spleen, and make little Casks, Cups and Dishes of it, which are call'd Tamarisk Ware. Those who are troubled with the Spleen, used to fill those little Casks with good Wine, and, after it has stood some Time, drink it for their common Liquor; and they use the Cups and Dishes for the same Purpose, to drink out of. From this Wood is made a white Crystal Salt, call'd Tamarisk Salt, which is appropriated to the Cure of the Spleen, which, to be in its greatest Perfection, ought to be dry, in small Crystals, and not in Powder, as it frequently is.

Tamarifeus, Tamarin major, five Arborea Narbonenfis, the greater Ta- Lemery. marisk, or Narbone-Shrub, is a Tree of a middle Size, whose Bark is rough, grey without, and reddish within: The Leaves are small, long, round, slender, very like those of Cypres, of a pale green Colour; the Flowers growing at the Top of the Branches, disposed in Clusters, little, white, and purplish, each one being composed of five Leaves, which is succeeded by a lanuginous Fruit, that contains blackish Seed. The Root is thick, woody, and divided into feveral Branches. This Tree grows chiefly in the hot Countries, as Dauphing and Languedoc, near Rivers and watry Places. It flowers three Times a Year, in Spring, Summer, and Autumn. All the Parts of the Tamarisk contain a great deal of Salt and Oil. The Bark, Root, Leaves, and Flowers are all used in Physick, to open Obstructions of the Spleen and Mesentery, excite Womens Courses, and to attenuate the tartarous and melancholy Humours.

[This is the Tamarifcus Narbonenfus. Ger. Emal. 1378. Tamarifcus folio tamuiori. Pask.

1479.

1479. It is common in Gardens, and flowers in May and June; the Leaves are like those of the Cypress, or Heath, the Flowers grow in Spikes, and the Seeds are wrapp'd in Down. It is recommended for the Jaundice and Fluer Albus, and Etmuller equals it to the Sassafras; but it is now very little used.]

### 7. Of Sassafras.

Pomet. THE Sassafras, or Cinnamon-Wood, Pomet.

a Tree very beautiful to the Eye, which grows plentifully along the Coasts of Florida, where there are entire Forests of it. This Tree has a very strait Trunk, on the Top of of which there are several Branches charg'd with green Leaves resembling those of the Fig, which the Inhabitants make use of bruis'd to cure Wounds withal.

Chuse your Sassafras with the Bark reddish, thick and rough, that being the best Part of the Tree, as well for its acrid Taste, as its strong aromatick Smell, which considerably exceeds that of the Wood, especially when the Tree is standing. Upon this Account it was, that the first Time the Spaniards landed in Florida, they thought they had been Cinnamon-Trees, because of their aromatick Smell, which they might smell two Leagues Distance; they soon found their Error in that, but judging, however, that it was not without some Virtue, they brought of it into Spain, and it soon got into Use.

Several People prefer the Bark of this Teee to the Trunk and the large Branches, and that not unreasonably, because it is much more fragrant than the Wood; it is commonly light, reddish without and within, easy to break, of a very strong aromatick Smell and Taste; the Bark is better than the Root, and the Root better than the Wood. When they cut or rasp this Wood for Use, the Smell is so strong that it occasions the Head-ach in those that work upon it, as it likewise does in those that use it, which has much lessen'd its Credit.

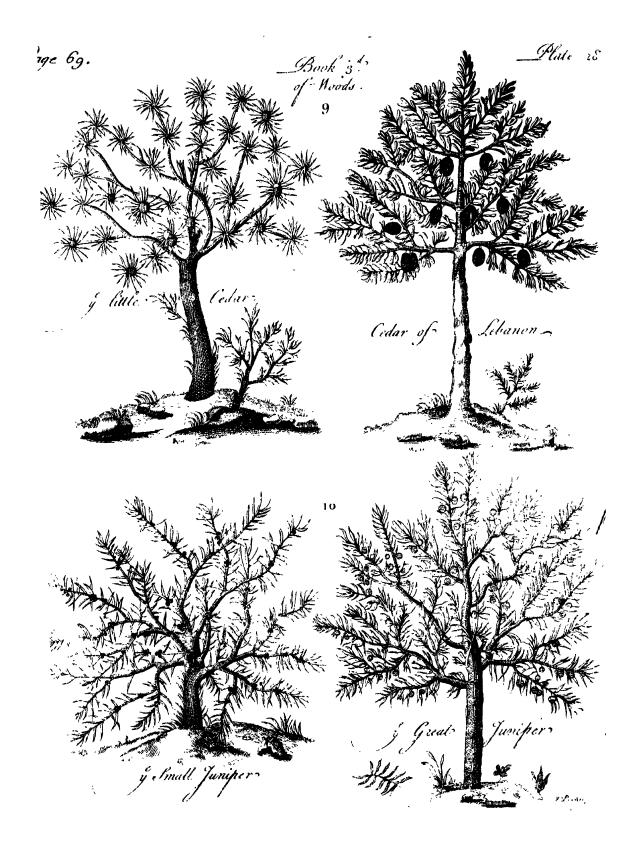
Sassafras is a yellow fragrant Wood, Lemery. of a Taste something acrid and aromatick, almost like that of Fennel. It is brought to us in large Pieces from Florida, New Spain, &c. where it grows, and where the Indians call it the Palm-Tree; and the French give it the Name of Sassafras, by which it is call'd by the Spaniards to this Day. The Fruit of this Tree is longish, wrinkled, and hangs by a long Footstalk; the Roots are extended along the Ground, bigger or less, according to the Size of the Tree, which is call'd Sassafras, by a Cor-

ruption from Saxifrage, which fignifies that it has the same Virtues with Saxifrage, that is to say, it is incilive, penetrating, aperitive, sudorifick, and cardiack; it relists Poison, strengthens the Sight and the Brain, and is good in the Sciatica, Gout, Catarrhs, taken in Decoction or Infulion, by Way of a Tea, &c. It is the Opinion of some, that the Saffafras, call'd the Ague-Tree. is rather a Root than a Wood, brought out of the West-Indies, as New Spain, &c. It is of a pleafant Smell, and comes in pretty long Logs, as thick as ordinary Billets. The Bark is red without, and cuts of a Flesh-Colour within; its Tafte is a little sharp, but aromatick, abounding with much volatile Salt; from whence it is evident that it has great Virtues; the smallest is to be chosen for Distillation, and must have its Rind about it, for that it possesses more of the ætherial Oil, and volatile Salt and Spirit, than the internal Substance of the Wood: It is a most admirable Sudorifick and Diuretick, never missing of its Effects by those two natural Ways of Evacuation: for if the Sick will not yield to Sweating, it often works off by Urine, being full of Spirit and Salt, and therefore is a great Specifick in all the aforemention'd Cases; besides which, a strong Tincture, or the Chymical Oil, is commonly given to facilitate the Labour of Women in Travail, and to expel both Birth and After-birth; after which, it strengthens the Parts, and invigorates the Instruments of Generation. Dose from three Drops to ten or twelve.

[It is the Arbor ex Florida ficulneo folio, C. B. Pin. 431. Arbor Saffafras Monardi, Breyn. Prodr. 1. 18. Saffafras, Ger. Park. It grows in many Parts of America. It is very drying and hot, tho not quite so much as the Guaiacum. It makes an agreeable Tea, and would be in great Use, but that the Scandal of its being good in Venereal Cases prevents many from using it.]

### 8. Of Guaiacum.

Pomet. THE Guac, Guaiacum, or Lignum fanctum, Holy Wood, grows plentifully both in the East and West-Indies, and is brought to us in large long Billets or Logs, some of which weigh four or five hundred Weight. This Tree is about the Height of our Walnut-Tree, bearing Leaves long or round, according to the different Species, which diffinguishes the Tree to be Male or Female. After the Leaves, come Tusts of blue Flowers, in the Shape of Stars, furnish'd each with a little brown Husk, of the Size of a Hazel-Nut, in which is contain'd a little Fruit of an Orange-Colour.



It is the best Sort of Wood we have for Turnery-Ware, especially for making Bowls for the Bowling - Green, Mortars, Pestles, Rowling-Pins, &c. The Surgeons, and others, who use it in the Venereal Disease, chuse the Shavings or Raspings to make their Ptisans and sudorifick Drinks. There requires no other Care in the Choice of this Wood, but to fee that it be clean, of a blackish brown Colour, refinous, heavy, hard and compact, and of a fornething acrid Taste, and such as has none of the pale outer Part of the Tree with it. There is made of this Wood, a Flegm, a Spirit, and black Oil, which is thick and foetid; and that which remains in the Bottom of the Retort is black as a Coal; but being made into a Lixivium, or a Lye, there is extracted thence a Salt. They make also a Resin and Extract of it, as they do of Jalap.

The Bark of the Tree is likewise of great Use in the Cure of the aforcsaid Disease. Chuse the heaviest, hardest to break, grey without and whitish within, of a bitter and disagreeable Taste. We have brought from the Indies large Pieces of the Gum, so like to Colophony, that it is almost impossible to distinguish it, but by the burning it, whereby it will afford a sweet Scent; and, on the contrary, the Colophony will smell of Turpentine. It is one of the greatest Sudorisicks we know at pre-

fent.

Within some Years the Surgeons thought that the Wood of the Box-Tree, to which some have given the Name of French Guaiacum, had the same Virtues with the Indian, which made them use much less of the true Guaiacum than they had been used to do; but if they had been curious enough in the Choice of the right Guaiacum, they would have sound a vast Difference. The Error arose from heree; they bought it of the Turners, who used to sell them the Sweepings of their Shops, in which it was mix'd with several other Woods, for a Penny or Three-Half-pence a Pound.

The Box-Wood might indeed have as much

Wirtue as this.

This Box-Wood is well known in France, they make feveral Sorts of Work of it. The best of it comes from Spain, and some Parts of France, but chiefly Champaigne. A Spirit and black Oil is drawn from this by the Retort, and is rectify'd as that of Guaiacum.

Guaiacum, five Lignum Sanctum, Lemery. is a Tree the Size of a common Walnut-Tree, whose Bark is thick and gummous, and easily parts from the Trunk. Its Wood is hard, firm, weighty, and marbled with brown, red and black; of an acrid Taste: The Leaves are longish, or almost round: The Flowers grow in Clusters, of a pale yellow Colour, hanging upon green Stalks; these are succeeded by a Fruit like small Chesnuts, round, solid, and brown; in which is contain'd another little Fruit, or Seed, of an Orange-Colour. This Tree yields, by Incision, a resinous Gum, of a reddish brown, clean, shining, friable, fragrant, and of an acrid Taste, call'd Gum Guaiacum.

The Wood, Bark, and Gum, are all used in Physick; every one of which contains a great deal of essential as well as fixt Salt, Oil and Gum. They are esteem'd good Sudorificks, and are given in the Venereal Disease, Rheumatisms, Catarrhs, Gouts, Scurvy, and Dropsy, and other Diseases, which proceed from Weakness, Obstructions, or Diseases of the Viscera. It is a Wood which is white without, and of a greenish yellow, or blueish green sometimes within, the heaviest being the best. It is brought from Jamaica, and several Places of the Spanish West-Indies, in Pieces so large as to make Bowls of them, which hold from three to twenty Quarts.

[It is the Wood of the Guaiacum, five Lignum fanctum, Park. 1586. Guaiacum Americanum primum fructu Accris sive legitimum, Breyn. Prodr. 1. 31. It is common in Jamaica, St. Domingo, and many other Places. The Leaves are alated; the Flowers blue and pentapetalous; the Fruit formething like the Maple. Some Authors distinguish the Lignum functum from the Guaiacum, and fay it is the Wood of the Guaiacum foliis Lentisci, Breyn. Prodr. 2. 54. and Caspar Baubine has made three Species of it, 1. the Guaiacum magna matrice; 2. the Guaiacum propemodum sine matrice; 3. the Guaiacum foliis Lentisci; but Father Plumier, who was upon the Spot whence they are all brought to us, affirms they are all the Wood of one Tree in different Circumitances of Age, Place of Growth, &c.

The Wood was formerly famous for the Cure of the Venereal Disease; but it was found not to succeed so well in Europe, as in hotter Climates; but it is still kept in use in such Cases as an Assistant, in Diet-Drinks during Mercurial Courses.]

### 9. Of Cedar of Lebanon.

THE Cedar of Lebanon is a Tree which grows to a prodigious Size, Pomet. and of a pyramidal Figure, whose Branches are adorn'd with little, narrow, green Leaves, and the Fruit like our Pine-Apples. It is from the Trunk, and the large Branches of this Tree, that there flows, during the great Heats, without any Incision, a Sort of white Resin, very clear and transparent, which we call Cedar-Gum, of which the largest Trees yield not less than six Ounces

Ounces a Day. Here are likewise, during the hot Season, little Bladders form'd on the Body of this Tree by the scorching of the Sun; which being pierc'd, afford a clear white Liquor, like Water, of a strong penetrating Smell; and when the Tree produces nothing more naturally, they make Incisions in it, and there runs from them an unctuous Liquor, which drops as it runs down the Tree, and makes what we call Resin of the Cedar; but this, as well as the other Productions of this Tree, are very scarce. This Resin is of a very sine yellow, bright and transparent, and of a very grateful Odour.

### Of the Berry-bearing Cedar.

The Berry-bearing Gedar is a Tree of which there are three Kinds, differing only in Height, or in the Thickness of the Leaves; they are commonly crooked, bearing long sharp-pointed Leaves, always green, especially in Winter; after which come Berries of the Bigness of those of Butcher's Broom, or Knee-Holm, green at first, but red when they are ripe. The Trunk being cut, there issues forth a very clear transparent Gum, which is the true Sandarac; but as we very seldom have it among us, we use the great Juniper-Gum instead of it, which I shall describe hereafter.

They make of this Wood, by the Affistance of the Retort, a black Oil, which being rectified, is call'd Oil of Cedar, or Cade Oil; but as these Trees are not very common, we content ourselves with that made of the Great and Lesser Juniper. The true Cade Oil, or Oil of Cedar, is admirable for curing Tetters and Scabs in Horses, Cattle, Sheep, and other Beasts: But as these Sorts of Oil are too dear, we substitute in their Place clear Oil of Pitch, which for that Reason is also call'd Cade Oil, as you will find in the Chapter of Pitch.

Cedrus Magna, sive Libani Conifera, or, according to Tournefort, Larix Ori-Lemery. entalis, fructu retundiore obtuso, is a Species of the Larch Tree, or a very large, thick, strait Tree, rising Pyramidal, whose Bark is all of a Piece, the Wood very hard and durable, fo that it is faid never to decay; the Leaves are small, strait and green, disposed in Clusters along the Branches, putting forth in Spring-time, and falling at the Approach of Winter; the Flowers and Fruit as before describ'd. There runs a Sort of Gum from the Tree without Incision, hard, and as it were in Grains like Mastick, from whence it frequently is call'd the Mastick-Cedar; the Wood is used in fine Joiners Work, and Turners Ware; the Tear that flows from the

Tree, is improperly call'd a Gum, because it is the purest resinous Part of the Tree, and is digestive, detersive, consolidating, strengthening, good against Gangrenes, and proper for Dislocations and Fractures.

There is another Sort of Cedar call'd Cedrus Baccifera, the Cedar that bears a Berry, or Cedrus Minor, the Leffer Cedar, of which there are three Kinds; the first is call'd the Phanician Gedar, or Cedrus felie Cupressi major fructu slavescente, the Great Cypress-leav'd Cedar, with the yellow Fruit; the Trunk and Branches whereof are crooked and knotty, the Wood reddish, yielding a Smell like the Cypress; the Leaves narrow and sharp-pointed, harder than those of Juniper and more prickly, green all the Year as the Cypress; the Shells or Husks are made up of several little Scales, at the Bottom of which grow feveral Bags or membranous Veficles, full of Duft; the Fruit arises upon the same Foot or Stalks with the Husks, but divided into Cells, in which are Berries that turn yellow when ripe, are a little fleshy, odoriferous and of a grateful Taste; each of them containing three woody Kernels that are hard, hollow on their Backs, and flat on the other Side; there comes from the Trunk of the faid Tree, in the hot Countries, a Gum call'd Varnish.

The second Sort is call'd the Lycian Cedar, or Cedrus folio Cupressi media majoribus baccis, the Middlemost Cypress-leav'd Cedar, with the great Berries; this Tree differs from the former, in that it is lower, and the Berries are much bigger.

The third Sort is call'd, Cedrus Hispanica procerior fructu maximo nigro, the Tall Spanish Cedar, with the great black Fruit; it is much higher than the rest, and the Berries a great deal bigger, of a black Colour: These Cedars grow in Italy, Spain, Provence, and Languedoc; they remain always green, and yield Abundance of Oil; the Wood is sudorifick, being used in Decoction; the Berries are proper to strengthen the Stomach, and affist Digestion. The Oil is drawn after the common Method, by a Retort, being black, and passes for the true Oil of Cedar; it is good for all Sorts of Scabs and Deasness, and may be inwardly given in Hysterick Cases. Dose from two Drops to fix.

[The first of these Trees is the Cedrus Libani, Ger. 1161. Cedrus conifera foliis Laricis, C. B. Pin. 490. It is kept in the Gardens of the Curious; the Resin is very seldom to be met with, and its Virtues are not now known but by Conjecture; the Wood is of a red Colour, something resinous, and of a strong agreeable Smell; it is said never to decay; it is sometimes used in Physick as a Sudorifick.

The

The Berry-bearing Gedar is the Oxycedrus of the Shops; the original Species is the Oxycedrus Lycia, Ger. 1191. Cedrus major Dioscoridis Clufii, Pluk. Alm. 201. It is also kept in the Gardens of the Curious. The Wood and Berries both resemble the Juniper in Smell and Taste, as well as Virtues, but they are seldom used.]

### 10. Of the Great and Small Juniper.

Pomet. THE Great Juniper, call'd in Latin Juniperus, is a Tree of different Sizes, according to the different Places where it grows; this Tree is commonly flender, at a good Height of which spring forth several Branches, surnish'd with little, narrow, prickly Leaves, always green; it bears also Berries of the Bigness of a Hazel Nut; which the fifst Year are green, the second brown, the third black, and which being full ripe, are very alexipharmick.

By cutting the Trunk, and the largest Branches of this Tree, there slows a Gum call'd Sandarac, during the great Heats, which is brought to us from Africk, where the Trees grow very high, and in great Quantities. This Sandarac is the Arabian Sandarac or Varnish, which is much traded in by the Swedes, Hamburghers and English; this is call'd by some the Arabian Sandarac; by others, the Varnish-Gum, or Gum-Juniper, and is of more Use to Artists than in Physick. Chuse it in large white Drops, and not dusty.

### Of the Small Juniper.

The small Kind of Juniper is so common every where, that it needs no Description; there is made of the fresh and dried Berries, a white and fragrant Oil; as likewise a Water or Spirit, vulgarly known by the Name of Geneva, as a Corruption from the French Word Geneure: Besides this, there is a Spirit and Oil drawn from the Wood, by the Retort; which Oil is mention'd in the preceding Chapter. The Wood is usually burnt as well as the Berry, to drive away or expel infectious Air. The Germans use the Berry in their Ragous, and it serves them for the Theriaca, for which Reason an Extract of it is call'd German-Treacle. This Juniper likewise affords some Sandarac, but in such small Quantities that it is not worth the while to make it.

The Great Juniper is call'd Junipe-Lemery. rus vulgaris celfior & arborescens, the common high Juniper-Tree, or the Spanish Juniper, which is chiefly improv'd in Africa. M. Tournesort distinguishes this Tree from the Cedar by its Leaves, which are single and stat, instead of those of the sadar, which more resemble the Cypress. It is a marrished in Decoctions, and fragrant when burnt; to which Purpose it is frequenly used in the Houses to prevent pestilential Diseases, and other Insections.

The other Juniver is a common Shrub, known to every Body, which is full of Oil and effential Salt; it grows plentifully in some Parts of England, and in most Parts of Europe; the Berries are cephalick, good for the Nerves and Stomach, to provoke Urine and the Terms, to resist Poison, for inveterate Coughs; Wind-Cholick, and nephritick Pains, together with the Strangury, Gravel, Sharpness of Urine, and all Obstructions of the urinary Passages, Womb, Liver, or Spleen. In France they make Comsits of them, which they call St. Roch's Counsits, and carry them in their Pockets, that they may chew two or three of them in a Morning, to prevent infectious Airs, and make the Breath sweet.

[The small or common Juniper is the Juniperus vulgaris fructuosa, C. B. Pin. 488. Juniperus vulgaris baccis parvis purpureis, J. B. 1. 293. It is common on Heaths.

The Great Juniper, or Juniperus major of the Shops, is the Juniperus masima Heyrica, Park. 1029. Juniperus major bacca carulea, C. B. Pin. 498. this is most common in Greece. There is also another Species used in Medicine, which is the Juniperus Alpina, J. B. 1. 301. Juniperus minor montana folio latiore fructu longiore, C. B. Pin. 489. The principal Use of this Species is, that its Insusion or Juice are given to Horses, to destroy the Worms call'd Bots, with good Success.]

## 11. Of Brafil Wood.

Wedle by the Dyers feveral Sorts of red Woods, by the Name of Brafil-Wood.; the first that is most esteem'd, and most in Use, is the Brafil-Wood call'd Fernambuck, because it is brought from a Place of that Name in Brafil; the next is the Brafil-Wood of Japan, which the English and Dutch call Supan-Wood, of which there are two Sorts; to wit, the large Supan-Wood, or the great Brafil-Wood of Sapan, and the less the Brafil-Wood of Japan, or the Biames Sapan, which is much smaller: The third Sort is the Lamon Brafil; the fourth is the Brafil of St. Martha; the fifth, and much the least, is the little Brafil-Wood that comes from the Antilles; so that that which makes so many different Kinds of Brafil-Wood, is nothing else but the several Places and Difference of the Soil where the Wood grows.

The Tree from whence this Wood is cut, is very thick and large, having long Branches that bear a vast Quantity of little Leaves, roundish, of a fine shining green, among which come Flowers, like the Lilly of the Valley, of a beautiful red, and a sweet Flavour, from whence comes a flat Fruit, in which are enclosed two slat Kernels, of the same Shape and Figure as the Gourd Seed.

The Natives prepare the Wood, which is brought to us, by cutting it close with the Ground, and branching or lopping of it, and taking away the outer Part; fo that what remains is only of the Size of a Man's Leg, tho' the Tree was of the Thickness of a Man's Body. Chuse the true Fernambuck Brasil in heavy Billets or Logs, compact, and without Pith, found and firm; that is to fay, without the outer Substance and Rottenness; such as, after it is shiver'd in Pieces, shews of a reddish Colour, and being chew'd, is of a sweet Take; but take care that it be not mix'd with other Kinds of Brafil, which is easily known, in that all other Sorts, except the Japan, are without Pith; and that of Lamon may be distinguish'd from the Fernambuck, in that it is in large Billets. Some Persons have affur'd me, that the Brafil of Lamon comes from All-Saints-Bay, where it grows in great Quantities. As to the Brafil in Chips, the best Account I can give you of it, is to trust to the Honesty of the Merchant with whom you deal. This Wood is used among the Dyers, and the Stationers make Red-Ink thereof. There is a very red Tincture made of the Fernambuck Brafil, of which I have been affur'd a Carmine is made as from Cochineal, but I never try'd it. Likewise there is a Liquid Lake made of this, which the Painters use for Miniature.

This Wood is call'd Lignum Brafili-Lemery. anum rubrum; the Tree from whence it comes, by the Indians is nam'd Ibirapitanga; the Bark is reddish and thorny, the Branches are long, and adorn'd with abundance of small Leaves like the Bramble; the Flowers are little and join'd several of them together, very odoriferous, and of a fine red Colour: This Tree grows in the Woods, and the best Kind is the Fernambuck, which is brought us from a Town of Brafil, of that Name. Chuse the heaviest, firmest, soundest, reddest, and that which affords the sweetest Smell.

There are several Sorts of this Wood, the principal Use of all which is for the Dyers; it contains a great deal of Oil, and a little essential Salt; is astringent, and the Tincture proper to strengthen the Stomach, abate a severish Heat, and remove the Instammation of the Eyes: The Wood boiled in Water, with a little Allum, will

strike a red Dye into Eggs boil'd with it; and it is used to colour Roots of Althea to clean the Teeth withal. Some Authors affirm it to be of great Use against the French-Pox; but I find it foldom or never prescrib'd for that Purpose; for tho' it may be drying, it has nothing of the acrid, hot Quality of the Guaiacian, neither does it abound with Rosin like that Wood: According to the following Prescription, you will have a Tincture for the dying of Skins, Book-Covers, and the like Things, and to write withal, as Red-Ink: The Tincture prepar'd with Water, only ferves for dying of Wooll, which will not turn purple, nor fuffer an easy Decay. The Tincture is thus made; take Raspings of Brasil, and, instead of Water, intuse them in Vinegar, or some Lixivium, with a little Gum-Arabick and Allum, fetting them in a glazed Pot, or Pipkin, for fome Hours, you will have a Blood-red Tinc-

[This is the Wood of the Erythroxylum Brafilianum Spinosum foliis Acaciae, Herm. Par. Bat. Pr. 333. Crista pavanis Coronillae folio, tertia, five Tincteria, maxima, Brasiliana, store variegato, parvo adoratissimo, siliqua aculeata, Lignum Brasilium dictum ferens, Breyn. Pr. 2. 37. It grows all over Brasil, and slowers in December; the Heart of the Wood is what ought to be the It is said to have the same Virtue with the Red Sanders, but is little used in Medicine.]

#### 12. Of Log-Wood, or Campeachy-Wood.

THE Log-Wood, call'd Indian-Wood, Campeachy, or Jamaica-Wood, is Pomet. the Heart of the Trunk of a large Tree, which grows plentifully in the two Islands aforesaid, and in Santa Cruce in America, where there are whole Forests of it.

This Tree is bigger or less, according to the Soil that produces it; it rifes with a Trunk, very thick and strait, cover'd with a thin Bark that is plain and fmooth, of a Silver-grey, or yellowish Colour; the Leaves are like those of the Bay, and being held in the Mouth, afford a Scent like the Clove, which has made it oftener taken for the Tree that bears the Clove than any other, by Reason of the delicate Flavour, which has given it the Name of the Indian aromatick Laurel: Among the Leaves comes a fmall Fruit, which adheres to the Branch by a little Stalk like the Cubeb, and has at the other End a small Crown; the Fruit is of a dun Colour, the Tafte sharp and piquant, notwithstanding it is agreeable enough, tafting like a Clove, which occasions it for the most

l'art

Part to be call'd Clove-Berry; the Fruit being broken, there are found within three small Kernels

very nearly resembling Musk-Seed.

We may observe then, that the Indian Laurel, or Campeachy-Tree, affords three Sorts of Commodities that are very good and saleable; the first is the Wood, which ought to be chosen true Gampeachy, cut by the Spaniards, as that is the best Kind, such as is not decay'd, and cut, not saw'd at the Ends, which distinguishes it from that of Jamaica, which is commonly saw'd, and is hrought by the Way of England, and coming from Campeachy or Jamaica, is carried to France; this Wood chiefly employs the Dyers, Bead-makers, and others, who use it to dye blue and black. The fecond Commodity this Tree affords is the Leaf, which may be used in the Place of the Malabathrum wherever it is order'd, as this Leaf has more Virtues than it; the Americans make use of them for Fomentations, to cure the Palfy, and other Diseases proceeding from cold Causes. The third is the Fruit, which the French use in Imitation of the English, as being a very strong aromatick, and proper upon feveral Occasions: As this has been known but of late Years, the French have had but little Commerce therein, befides what their Privateers of St. Maloes have taken from England: The Grocers distinguish it by the Name of Clove-Berry, because of its Refemblance to that Spice in Smell and Tafte, and it is call'd with us All-Spice, as having an Analogy to Cinnamon, Cloves, Mace, and Nutmegs, and is very much used in all Sauces. By the Engliff it is call'd Jamaica-Pepper, by the Dutch, Arronum, and by the French, the Fruit of the Indian-Wood, and vulgarly, though improperly, the Clove-Berry. The Flowers of this Tree are faid to be very beautiful.

Lignum Indicum, Campecium, Log-Lemery. Wood, or Jamaica-Wood, call'd also Brafiletto, comes from Campeachy and Jamaica, where it is chiefly found growing; but it grows in several other Parts of the West-Indies in the Spanish Territories, the Isles of Providence, and the like; where, besides the Wood, the main Produce is the Pepper, or Fruit of the Tree, call'd Pimento. What the English use comes in great Plenty from Jamaica; it is small, round and blackish, almost like common Pepper, but of a more fragrant Smell, and much more aromatick Talte; when one chews it in the Mouth, it is hot, and the Flavour is as if you had all the other Spices in your Mouth at once, as Cinnamon, Cloves, Mace and Nutmigs, being strong, and of an odoriferous Smell, and without doubt pofselles all their several Properties, Qualities and Virtues, tho' possibly not in so large a Measure,

in Respect to its Body; for that it consists of much more earthy Parts than any of them, Cinnamon only excepted; but the Tincture, or Oil of it, being extracted from its terrene or feculent Part, with which it holds but a small Proportion in Respect of the four Spices; they are not much inferior to what may be extracted from those generous Drugs: So that in short we must allow this Spice to be stomachick, cephalick, cardiac, uterine, nephritick and arthritick; it is alexipharmick and diuretick, comforts the Brain and nervous Parts, refreshes and strengthens the whole Animal Œconomy, and restores the natural Functions of Life, where weaken'd or decay'd. It is given in Powder, Decoction or Tincture, against Diseases of the Reins, Liver, Spleen and Womb; and is very profitable in Gout or Stone, eight or ten Drops of the Tincture, made with Spirit of Wine tartariz'd, being taken three or four Times a Day, in any Cordial Water or Wine. The foetid Oil, made by the Retort, is good outwardly applied to Gangrenes, Tooth-Ach, and the like.

[The Log-Wood is the Wood of the Crista Pavonis Coronillæ folio secunda seve Tinetoria Indica, store luteo racemoso minore, siliqua lutissima glabra Lignum rubrum Sappan distum ferens, Breyn. Prodr. 2. 37. Erythroxylum seve Lignum rubrum indicum Spinosissimum Coluteæ foliis storibus luteis, filiquis maximis, Par. Bat. Prodr. 333. It is a Native of both the Indies; the Wood is used in dying, and sometimes in Physick, being accounted an Astringent: This Tree does not grow in Jamaica, but upon the Coast of the Bay of Campeachy.

These Authors are mistaken in thinking the Pimenta the Fruit of this Tree; the Tree which bears that Spice is the Myrtus arborca foliis Laurinis Aromatica, Cat. Jamaic. P. 161. which is very common over the whole Island of Jamaica. For a sull Account of this Spice, see the Appen-

dix.

## 13. Of Fustick-Wood.

THE Wood we commonly call by this Name, is the Roots and Pomet. Trunk of a Shrub, which Botanists call Coggigria from Theophraftus, and Cotinus from Pliny, which has green Leaves almost round; after which grows a Flower, which at first is made in the Nature of a Cluster, of a dark green Colour, and which at last opens itself into the Shape of a Fan, among the Down of which are black heart-fashion'd Sceds. The Roots and Trunk of this Shrub are what the People of Provence and Italy, after they have peel'd off the Bark, sell

for Fuffick-Wood, which, according to its good yellow Colour, is supposed to be the better Commodity; that of Provence excels the Italian; but there is a better Sort comes from Holland and England than either of the other two. The Use of it is for the Dyers, to make a dead Green, and it is of some small Account among the Workers in Ebony and the Curriers.

This Wood is call'd by M. Tourne-Lemery. fort, Cotinus Coriaria, Coccigria by Theophrastus, and Coggigria by Pliny. It is a Shrub of fix or feven Feet high, bearing its Branches round, cover'd with a dark red Bark; the Leaves are large, veiny, almost round like the Elm, but much less, smooth, and green; the Flowers grow on the Tops of the Boughs in Clusters, of a dark Colour, inclining to Purple. This Shrub grows on the Mountains in Italy, Hungary, and Provence. The Wood is yellow, and used by the Dyers and Leather-dressers; the Leaves and Seeds are very aftringent and cooling, drying and vulnerary, and may be used in Gargles for Ulcers in the Mouth, Throat, and other Parts, and for the Tooth-Ach. A Salt made of the Ashes of the Wood, makes an excellent Purge with two Drams of Treacle of Mithridate, and ten Grains of the Salt; this may be given three or four Days successively, as the Disease requires, and is faid to have such sufficient Virtue to give Relief in the Gout and Rheumatism, as is not to be found in any other Medicine whatfoever, laxative, purgative, or expulsive. Make the Salt thus; take what Quantity of the Wood you please, burn it to Ashes, and with Furnitory Water, or any other proper Vehicle, make a Lixivium, or Lye; filtrate this, and then coagulate it into a Salt, according to the usual Form.

In Surgery you may use the Salt thus: If the Wound or Sore you would dress be open, first cleanse by this Salt, then anoint it twice every Day with the Balsam or Gum of this Wood, made as that of Guaiacum, 'till the Cure is perfected. If there be great Pain in any Part of the Body, and nothing to be seen, anoint the Place with this Gum. By this Gum may be cur'd the Gout, the Palsy, and the French Disease.

[Fustick-Wood is the Wood of the Morus fructu viridi Ligno Sulphureo Tinstoria, Sl. Cat. Jam. Tateci iba Pis. 163. The Tree here described by Pomet, and which he thought produced the Fustick, is the Cotinus Mathioli, C. B. Pin. 415. Coccigria Cotinus coriaria nonnullis dista, Chabr. 37. It is common in Italy; it flowers in May and June; the Fruit is esteemed drying and aftringent, but now never used in Medicine.]

There comes another Sort of yellow Wood from England and Holland, in thick Billets, which

is known by no other Name than that of the Yellow Wood, which serves the Dyers and the Workers in Ebony. I know nothing further touching this Yellow Wood, than what I have here related; but that it ought to be chosen of the highest Colour that may be, and the Buver must take care that he has not Fustick fold him for it. There comes also a certain Wood from Lorrain of a greyish Colour, tending something to reddish, hard and moderately heavy, furnish'd with a Bark that is thin, and a little resembling the Cherry-Tree, which is what we call St. Lucy's Wood; and which, because of its agreeable Scent, is used by the Workers in Ebony. The Choice of this Wood is from its being firm, and without Knots. This Wood is admirable in its own Nature, in that it is not subject to decay, and the older it is, the better it fmells. M. Tournefort affured me, that this Wood was the Stem of the Shrub which bears the Mahalep, of which I made mention in the first Book of Seeds.

There is also brought from the *Indies* a certain greenish Wood in thick Billets, of a very good Smell, by the Name of *Calambourg-Wood*, serving for a great many Sorts of Works, by Reason of its sweet Scent, which is proper for several Kinds, as also for inlaying and making of Beads; the Barbers use it as *Rhodium*, boiling it in the Water with which they shave.

The Dutch transport two Sorts of purple or Violet-colour'd Wood in large Billets, which is of no other Use but for inlaying. The Choice of this Wood is to pick such as is the most veiny, or marbled within and without, the least spotted or decay'd that can be met withal, and freest from the outward Substance; the largest Violet-Wood is call'd Palixandre-Wood. There is another Sort the Dutch transport, of a reddish Colour, tending to a Purple, which the Dutch call Letter-Hout, and the French China-Wood. M. Furetiere says, that this Wood only comes from the Continent of Guinea, which I do not understand, having never seen any. But this is likewise for inlaying.

Besides these Sorts of Wood mention'd besore, there are three Sorts of Ebony, to wit, the black, which the Dutch bring from the Island of St. Maurice, which the Antients believ'd to be a Species of Lignum Aloes; the second is the red Ebony; the third is the green Ebony. As to the Tree that produces the black Ebony, some affirm that is the Height and Size of the Oak, and that it is like that Wood both in the outer Substance and the Heart, except that the Colour is blacker, and takes a fine Polish or Smoothness, which makes it valued. It is said the Leaves resemble the Laurel, and that it bears a Fruit like an

Acorn.

Acorn, upon a little Stalk. The red Ebony is likewise very solid and heavy, being more veined and of a higher Colour. The green has the same Qualities when freed from the Bark and outer Substance.

The Use of Ebony is for several Kinds of inlaying, and because of the great Use it was of formerly, those who work upon Ebony are call'd at this Time Ebonists, who are in France a very considerable Body of Work-Men. There are those who affirm that the outer Substance of the Ebony, infused in Water, has a purgative Quality, which will cure the Venercal Disease.

Besides this, there comes from the Indies a greyish Wood in large Billets, of an Anifeed Smell; for which Reason it is call'd by the Ebonists, or Cabinet-makers, who work in it, Anise-Wood, or Anil-Wood. There is another Wood fold with the Seed thereof, nam'd Anise of China, Siberia, or the Philippine Isles, or the Badean or the Zinge-Seed, &c. describ'd under the Head of Nigella Romana, by the Name of China Anise. There are also brought to us two Sorts of the Cashew-Wood, the red and the white; the Tree is faid to bear Leaves like the Oak; the Wood is light and spongy.

The Tacamahac-Wood is the Wood of a great Tree common in New Spain, which produces the Gum Tacamahac, to be spoke of in its proper

Place.

There are yet feveral Sorts of Wood, as Sambarume-Wood, which is a Kind of white Sanders; Milucca-Wood, which the Natives of the Country call Panava; and many others which I shall forbear to mention, we having little Trade or Sale for them. As to the Molucca-Wood, forme have affur'd me that it was the white Cinnamon, which I have no Faith to believe.

[As these Woods are not used in Medicine, a particular Account of the Trees which produce them I judged would be foreign to the Intent of

this Work.]

### 14. Of Snake-Wood.

THE Snake-Wood Plant is a Creeper which spreads itself a great Way; the Branches are flender and full of Leaves, like those of Briony, and fasten themselves to the Trees that are near them; the Wood is firm, heavy and compact, and cover'd with a thin Rind, reddish or of a marbled brown, without Smell, and of an infipid Taste; it is brought to us in long Pieces, of the Thickness of a Child's Arm; it grows in the Iflands of Geylon and Timor. Chuse such as is the oldest you can find. It is deterfive, desicative, and good in Intermitting Fevers.

[This is not properly a Wood, it is the Root of the Nux Vemica minor Moluccana, Lignum Colubrinum Officinarum, Par. Bat. Prod. 357. Radix Colubrina Lignum Colubrinum, Mont. Ex. It is of a very bitter Taste, and is a strong Purgative and Emetick, taken in Infusion from a Scruple to a Dram, and in Substance from ten Grains to a Scruple; but its Operation is obferv'd to be much more violent upon the Europeans than on the Indians, with whom it is a com-

mon Medicine for the Worms.]

## The End of the Book of WOODS.

# BOOK the Fourth.

# OF BARKS.

## PRE FACE.

of a Tree i which we up, either as it is taken naturally from the Vegetable, as the Cortex, as Peruvian Bark, and the Bark of the Mandrake; or cleansed, or freed from the first outward Rind, as Cinnamon, Cassa Lignea, and others of the like Nature. I shall begin this Book with the Tree that bears the Cinnamon, as well because of the great Consumption that is made of that Bark, as for the considerable Virtues with which it is endowed,

### r*i Of* Cinnamon.

HAT the Antients, as well as the Moderns, call Cinnamon, is the middle Bark of the Branches of a Tree which grows the Height of a Willow, and whose Leaves are so like the Tolium Indum, that it is difficult to find the Difference at first Sight, which has given ground to forme People to affert, that the Folium Indum was the Beaf of the Tree that bears the Cinnamon; but if the Leaves are so like, that the Eye cannot readily distinguish them, the Palate can do it with Eafe, because the Leaves of the Cinnamon are of so sweet a Take and Smell, that they surpais, in some measure, the Cinnamon, After the Leaves, arife white Flowers, in Form of little Cups, from whence come Berries, of the Figure of an Olive-Stone; each of which adheres to the Branch, as is represented by the Cut engray d from the Original, which M. Tournefort has in his Hands, of which he gave me, at the same Time, five or fix Leaves, of the Shape and Taste here taken notice of.

As to the Place from whence the Cinnanon comes, and the Manner of Barking the Tree, I think it proper to relate what Mr. Tavernier has writ of it. The Cinnanon comes from the Isle of Ceylon in the East-Indies; the Tree that bears

it is very like our Willow, and has three Barks, or Rinds; but the first and second, or middlemost Bark, are chosen for Use, and the third they never meddle with. This Cimamon costs the Dutch more than can be believ'd, for the King of Crylen, otherwise call'd King of Candy, from the Name of the Capital City, is a fworn Enemy to the Hollanders; so that every Year they are oblig'd to fet a Guard of five or fix hundred Men to cover and defend the Labourers, during the Season for barking the Cinnamon-Trees, and entertain thele Workmen all the rest of the Year, without reckoning the feveral Garrisons they are forc'd to maintain throughout the whole Island. These great Charges enhance much the Price of Cinnamon.

When the Inhabitants of the Island gather their Crop of Cinnanon; they free it from the outward Bark, which is brown and rough; then they lay it to dry, and roll it up: By this Means it acquires the Figure we see it in, and becomes of a reddish Colour, being of a sweet Smell, and piquant Taste, aromatick, and very agreeable; therefore chuse such, together with the thinest Bark, and of the highest or deepest red Colour that you can get, throwing side such as is thick, or has little Taste or Smell. As to those who buy great Quantities, let them take care that they do not purchase Cinnanon that has had the Oil or Essence

dr.ws



drawn from it, which is very difficult to know.

unless you taste it Piece by Piece.

Cinnamon is of such great Use, that we have few Drugs which we use so much, as well because of its Virtues, as from its agreeable Taste and Smell. The Dutch bring us another Sort of Cinnamon, with a large Bark, and very thick, which is that the Antients, from the Arabians, call'd Dracheni, and we, Rough Cinnamon. This Cinnamon is the Bark of the Trunk and large Branches of the Tree bearing the Cinnamm; but as it is a Merchandize or Commodity of little Value, because there is no Sale for it, being without Taste and Smell, except it be here and there a Piece of it, which has a little thin Membrane within it of so piercing and aromatick a Taste, that it is almost impossible to bear it in the Mouth any Time; but there is so little of this to be found among it, that it is scarce worth speaking of. The Consectioners, after infusing the fine Ginnamon in warm Water, Cover it with Pearl Sugar, and fell it by the Name of Milan Cinnamon. The French likewise make little Pastilles of Ginnamon and Sugar, which, with the Mucilage of Gum-Tragacanth, they ranke into a Paste. The Dutch, and the Natives of Coylon, make a Confection of fresh Cinnamon taken from the Tree, which is an excellent Sweetmeat to carry to Sea, but very rare to be met withal in these Parts of the World.

### 2. Of Oil of Cinnamon.

BY Means of a proper Menstruum, and an Alembick, there is made, from fine Cinnamon, a tich, clear, and reddish Oil, of a very flrong piquant Tafte, which it is almost impossible to bear upon the Tongue; nevertheless its Taste and agreeable Smell is the Reason that most People cover it. As Cinnamon is a Bark which has very little ()il in it, we are forc'd to have Recourse to the Hollanders for it. It is an Error, however, to think they keep a better Kind of Cinnamon for their own Use, and to draw the Oil from, than they fell to us; the Cinnamon is the fame, and different Manner of managing it is the only Reafan they have more Oil from it than we can get: They take what Quantity of Cinnamon they pleafe; infuse it twenty-sour Hours in cold Water, then tiking it out, put field in, continuing this follong 'nil the Water becomes ting'd of a beautiful red; they then put it into a large Copper Alembick, and add thereto a proportionable Quantity of Spirit of Wine, which has the Property to separate the Oil from the Water, and make it rife to the Top of the Vessel; so that one Pound of Ginnagran shall be able to produce near the Quantity of an Ounce of Oil, which is very different from what we can do here; for Mr. Lemery affirms, that four Pounds of good Cinnamon will, with Difficulty, produce fix Drams of Oil.

It is rare that the Hollanders sell the Oil of Cinnamon genuine and natural as it is made, but mix it with Spirit of Wine, well deflegmated, and drawn over upon Salt of Tartar; which has given a Handle to several Chymists and Druggists to do the same; so that those who buy an Ounce of this Oil, have not above half an Ounce for for their Money; which is of great Consequence, not only as it is a valuable Commodity, but as it is one of the best Medicines; tho' the Cheat is easy to discover two Ways; the first is, when looking into the Bottle in which it is contain'd, you may observe the Humidity that is within: The fecond is, by dipping the Point of your Knife in, and putting it into the Candle; if there is any Mixture of the Spirit of Wine, it will take fire presently; but, on the contrary to that, when it is pure, it will do nothing but smoke. And this pure Oil is what we call, with just Reafon, Essence, Quintessence, or Oil of Cinnamon, which is proper to all its Intentions, and excels all other Preparations of the Bark. This Oil and the Bark itself are the greatest Cordial we have; for which Reason the Dutch, the English, and the Germans, as well as the French and Italians,

use such great Quantities of it.

Besides the Oil, there is made a Sort of Cinnamon-Water, in which the Oil plentifully a-This is distill'd from White-Wine, Rose, or Balm-Water, or, instead of Wine, Aqua Vita, or Spirit of Wine and Cinnamon; from which, by a Glass Alembick, in a Sand-Heat, or Balneo, a muddy Liquor is drawn, like Milk, which, after a little Time, clears up again, and looks like Spring-Water: That which makes the Water look thick when it is new, is the Oil. which is rarified in the Water, fo that it becomes imperceptible in that Form; but when the Liquor feparates, and becomes clear, the Oil precipitates to the Bottom of the Liquor, and remains in Form of a little Ball. This Cinnamon-Water is very useful to give Women in Labour, in that it is an excellent Corroborative, strengthens the Stomach, and affifts Evacuations. It is also prevalent in reasting the Malignancy of the Air, and peltilential Vapours, and to re-establish the natural Heat of the anim I Life. The Dose is from half an Ounce to an Ounce.

Some make Pastilles with Cinnamon-Water and Sugar, which formerly were call'd O.co-Saccharum; but those are not so good as what are made with Oil of Cimiamon. At Montpellier they make a Syrup of Cinnamon, from a ftrong Infusion of it and Sugar, brought to a due Con-

fiftence.

fishence, and aromatiz'd with a few Drops of the effential Oil. We fell a Tincture of Cinnamon, whose Virtue is encreased by several other Aromaticks, as Cloves, Mace, Long Pepper, Galangal, Ginger, Coriander, Musk, and Ambergrease, all grosly powder'd and put into a Bottle, with Brandy or Spirit of Wine, and set in the Sun during the hot Days; and this is what we sell by the Name of red Hypecras. There is likewise a white Hypecras, made almost the same Way, only it is distill'd to discharge the Colour; they may both of them be mix'd in Wine, sweeten'd according to the Palate of the Drinker. This is a mighty Cordial in use at Montpellier, and the Southern Parts of France.

### 3. Of Cassia lignea.

THE Cassia lignea is also a second Bark of the Trunk and Branches of certain Trees, very like those which produce the Cinnamon. Thefe Trees grow in the Isle of Ceylon here and there, intermix'd with those Trees that bear the Cinnamon. It is the same as to Cassia lignea as it is in Cinnamon, that is, the finer or purer the Bark is, the higher colour'd, the fweeter tafted, and the more biting and aromatick it is, the more it is esteem'd; nevertheless, be the Cassia lignea ever so good, there is a great Difference betwixt the one and the other, the Cassia lignea leaving a Viscosity in the Mouth, which we do not meet with in the Cinnamon. It is of little or no Use in Physick, only that it enters into the Composition of the great Treacle, and there would be but a small Quantity of it fold, but that it is frequently imposed upon the unskilful Buyer for true Cinnamon, tho' a Pound of that be worth more than four of the Cassia, and the Cassia has not its Virtues. An Oil is drawn from it as from Cinnamon, and used in the same Cases. There are several Kinds of this Bark; as first, the true or Quill Sort, and 2dly, the Tramboon, brought from the East-Indies. The true is that which is the best for medicinal Uses, and is of the Quill Sort, being of the Thickness of a Goose-Quill, made up into small Bundles, generally ten or fourteen Inches long, of a bright Cinnamon Colour, and much of the Taste, but not so biting upon the Tongue, when chew'd. The Tramboon is of three Sorts; First, the small, like small Cinnamon, and fomething of the fame Tafte, but not fo strong, being more earthy and woody, and of a worse Colour. 2dly, The Bundle Sort, bound up in Bundles like Clove-Bark, of a very hot biting Taste, but breaking more blackish within, and, as it were, gummy. 3dly, The thick Sort, almost like the last, in Rolls as thick

as a Man's Thigh, which is also strong, but of a very dark Colour. Cassia lignea differs from Cinnamon, in that it is weaker, darker colour'd, and, when chew'd in the Mouth, more glutinous, dry, and harsh; whence it appears that the Cassia lignea Tree, and that of the Cinnamon, are two different Trees. The Difference of the Colours in the Tramboon Cassia may be supposed to arise from its Preparation when taken off the Tree, being dry'd in the Sun; when it is less dry'd than it should be, it is of a paler Colour; and, when too much burnt with the Sun, it grows, as it were, black.

Cinnamomum, seu Cannella, in Eng-Lemery. lish Cinnamon, is a thin Bark, that is fmooth, and roll'd in long Pipes, of a ruffet Colour, or yellowish, inclining to red; of a fweet Smell and Taste, piquant, fragrant, and very aromatick: It is taken from the Branches of a Tree about the Height of our Willow, which bears a Leaf shaped like the Indian Leaf we call Malabathrum, which smells and tastes like the Cinnamon. The Flowers grow in little Cups, white and odoriferous, succeeded by a Fruit that is of the Shape and Size of a small Olive, green at first, but growing black as it ripens. Tree grows in the Isle of Ceylon, which is in the meridional Part of India; and the Wood is without Smell or Taste. The principal Virtue lies in the Bark, which, when fresh, is greyish without, and yellowish within: When it is feparated from the Tree, it eafily divides into two Barks, and they keep the inner Bark as the most valuable, which they dry in the Sun, and roll it up just as we have it come to us. This has little or no Smell or Taste when taken from the Tree, but acquires both afterwards; take Care of fuch as has been dry'd in too feorching a Sun, for that will be blackish, a great deal of the volatile and effential Parts being evaporated: On the other Hand, if it has been dry'd in too moist a Season, it will have a grey Colour, and not have half its Virtue, because the volatile Salts are not sufficiently exalted: But chuse such as is the finest thin Bark, of the highest Colour, a gratefull Smell, and biting Taste. When they have bark'd the Cinnamon-Tree, if they let it alone for three Years together, it will produce another Bark as good as the former. This Cinnamon yields a great deal of exalted effential Oil and volatile Salt; therefore it is proper for the Head, Brain, and Nerves, to fortify the Vitals, comfort the Heart. affift the Stomach, expel Wind, help Digeftion, strengthen the Womb, open Obstructions, and provoke the Terms: It is the greatest Restorative in Nature, and an excellent Antidote against Poison, Plague, and any malignant Diseases.

The

The best Preparation of it is the effential Oil, of which, if genuine, two Drops given upon a Lump of fine Sugar, or in a spirituous Vehicle, will revive the Spirits to a Miracle. It is good in Powder, Decoctions, Tinctures, Cordial Waters, &c. from half a Dram to a Dram in Powder, and from that to an Ounce or two in Decoction, Tincture, or Water.

That Cinnamon which is ill colour'd, and of no Tafte, is worth nothing; therefore in buying it, you ought to bite, chew, and taste every particular Stick, that you be not deceived; for that without Tafte, has either been ill got and dry'd, or distill'd in the Indics, or elsewhere, and its strong aromatick Oil taken from it, which is a great Cheat and Abuse to European Buyers. This Cinnamon was the Cassia lignea of the Antients, and the same which in some Shops is call'd Cannella: The best comes from Ceylon aforenam'd, and the worst from Java. Its Colour it attracts from the Sun-Beams; for the Bark being taken off from the Tree, and exposed to be dry'd in the Sun, that which is not well dry'd is of an Ash Colour, but if too much burnt with the Sun, it is of a blackish, or of a dark brown: If it be well cur'd, it is of a more rofy or pale red, and, by lying together, and Length of Time, changes into the Colour we have it of here.

[There is a great Variety in Opinions among Authors, about the Cassia, Cinnamon, and Malabathrum; some confound Cinnamon and Caffia together, and fay they only differ in Name, others fay the Tree that produces them is the fame, but that its growing in different Places makes the Difference, and others that they are taken from different Parts of the fame Tree; but the certain Truth is, that they are the Barks of different Trees, so much alike however, that they are not easily known from each other. The Tree which produces the Cinnamon, is the Arbor canellifera Zeylanica, cortice accerrimo seu præstant:ssimo qui Cinnamomum Officinarum. Prodr. 2. 17. Laurus Gevlanica glandifera, felio trinervio optimum et legitimum Cinnamomum ferens. Muf. Zeyl. 12.

That which produces the true Cassia lignea, is the Arbor Canellisera Malabarica cortice ignobiliore, cujus folium Malabathrum Officinarum. Breyn. Prodr. 2. 18. Cassia vulgaris Calibacha diera. Pis. The Bark of this is brought to us from Malabar and Java. But there is another Cassia lignea more common in the Shops, tho not nearly so good, of a darker Colour, more mucilaginous in the Mouth, and generally in larger Pieces, which is the Bark of the Arbor Cunellisera Indica cortice accrrimo viscido seu muci-

laginoso qui Cassa lignea Officinarion. Breyn. Prod. 2. 17. This is brought from the East-Indies, and is what we commonly see under the Name of Cassa lignea.

The Folium Malabathrum is the Leaf of the Cannella Sylvestris Malabarica. Com. fl. Mal. 68. Katou Karva, Hort. Mal. 5. 105. Pseudo Cas-

fia Dioscoridis. Jons. Dendr. 162.

Dioscoridis err'd in saying, this was a Sort of Lens Palustris, for there is no Room to doubt its being the Leaf of this Tree, but the true and genuine Leaves are very seldom seen, those of the Cinnaman and Cassia Trees being generally sent over for them.

The Fruit of the Cinnamon-tree by Coction and Expression, yields an oily Substance, of which Candles are made for People of the first Rank; and from the Neck of the Root they draw a fine Kind of Camphir, very rarely to be met with in Europe, and of a spicy Smell.]

# 4. Of White Cinnamon, or Cortex Winteranus.

W Hite Cinnamon, to which some give the Name of White Costus, Costus corticosus, Winter's Bark, or Winter's Cinnamon, because William Winter was the first who brought it into England; is the Bark of the Trunk and Branches of a Tree, of the Size of a Pear-Tree: The Branches are slender, high, straight, and well adorn'd with Leaves like those of the Spurge Laurel, but more delicate, softer, of a Sea-Green, and very fine Smell; after which grows a round Fruit, of a beautiful red. This Tree grows plentifully, at St. Donningo in Guadalonpa, all about the sandy, mountainous, or rocky Parts; and is met withal in the Isle of St. Laurence or Madagascar, where it is call'd Fimpi.

The white Costus we call white Cinnamon. has so great Conformity with the rough Cinnamon, that but for Colour and Tafte, few People could discover the Difference. This is the Bark that some Apothecaries improperly make Use of, instead of Arubian or Indian Costus, of which we made Mention already, and upon that Occasion, give it the Name of Indian Coftus; which is very improper, because the Indian Costus is a Root almost unknown to us, and this is a Bark we are very well acquainted with. Tho' this is of a warm biting Tafte, and very aromatick, it is very little in Use, either in Medicine, or to other Purposes, among any of the European Nations. It ought to be chosen in fine Pieces, whitish without and within, cleanfed from its outer Rind, which is greyith, thick and rough, of a biting, acrid Tafte, and a Nutmeg Smell. Some have thought

thought this Bark very useful in the Cure of the Scurvy. It is an Ingredient in some Galenical Compositions, and its Æthereal Oil is excellent for the Gout, and other such Diseases. During the hot Season, there flows from the Trunks of these Trees, a black Gum, fat, and very odoriferous: This is that which some Druggists call Gum Alouchi, and oftentimes fell for Gum Ivy, or Bdellium; which is easy enough to distinguish, in that Gum Ivy is very dry, clear, and transparent, and the Bdellium is almost like Gum-Arabick, but that it won't dissolve in Water; whereas this Gum is foft and greafy, of different Colours, very dirty and impure.

Cinnamomum Winteranum, rolls up in Pipes like Cinnamon, but is much larger and thicker, and of a whiteh yellow Colour, very hot, biting, and aromatick in Taste, having the Virtues and Relish of most other Spices; and is brought to us out of the West-Indies, from Nevis, Antigua, Montserrat, and other of the adjacent Islands. It is an excellent Cephalick, Stomachick, Cordial, and Hysterick: It attenuates and opens, is sudorifick and alexipharmick, prevails against the Vertigo, Megrim, Head-Ach, Apoplexy, Lethargy, Palfy, and most Diseases of the Head and nervous Parts: It strengthens the Stomach, causes an Appetite and good Digestion, expels Wind, and is singular against the Cholick, and griping of the Guts; opens Obstructions of the Bowels, and provokes the Terms: It is a good Cordial, strengthens the Heart, revives the Spirits and fortifies the whole Body, being excellent against Faintings, Swoonings, Sickness at Stomach, Pa'pitation of the Heart, &c. used as the true Cinnamon, in Powder, Water, Oil, or Spirit; but in large Quantities, to answer the same Intentions.

The true Cortex Winteranus is the Bark of a Species of Periclymenum, the Laurifolia magellanica cortice acri. C. B. Pin. 461. The Cortex Winteranns, Cortex magellanicus. Mont. Exot. 8. But this, tho' the right and genuine Cortex Winteranus, is feldom feen in the Shops; what we meet with in its Place, is the Canella Alba. Rai. Hist. The Bark of the Arbor Baccifera laurifolia aromatica fructu viridi calyculato, racemoso. Phil. Trans. 192. This grows plentifully in Jamaica, the Bark has no Use in Medicine but as a Succedaneum, for and under the Name of the Cortex Winteranus.]

## 5. Of Clove-Cinnamon.

HIS is what we call improperly, Clove-Wood: It-is the fecond Bark of the Trunk and Branches of a Tree, whose Leaves come very near those of the Bay-Tree; after which there grows round Fruit, of the Size of Gall-Nuts. Chesnut-colour'd, very light, which being broke, you may find within a Kind of Kernel: The Fruit has the Smell and Tafte of the Clove, which gave Occasion to the Antients to call it Clove or Madagascar Nut, because we meet with great Quantities of those Trees in that Island. The Clove-Wood, or rather the Bark, having the Taste and Smell of the Clove, is at present made Use of, especially by the Hawkers and Chandlers. who fell it, after it is beat to Powder, for powder'd Cloves, though the Cloves are four or five Times as dear as this Bark; and so they deceive the ignorant. They also fell it whole, pretending that it is the Bark of the Clove Tree, which is false, for the Clove is found only in the Island of Ternate, and this Bark is from Brafil, or from Madaga scar.

As it is a Bark in some Use, I shall observe that it ought to be chosen pick'd clean from the outward Bark which is usually grey and knotty, and of a dun Colour; that it ought to be thin, of a biting aromatick Taste, and as nearly approaching the Clove, both in Smell and Tafle, as possible; but take care that what you buy be not musty, or mix'd with thick Bark, that has neither Taste nor Smell, as happens too often. This is of little or no Use in Physick; but there are fome Persons who make a Tincture of it with Aqua Vitæ, or Spirit of Wine, which they fell for Tincture or Effence of Cloves: The Confectioners and Perfumers likewise use it instead of Cloves.

Others fay, the Clove-Bark is brought to us out of Turkey, and is almost in the Shape of Cinnamon, but comes very near the Colour of Cloves, and has the fame Tafte and Smell; for that the Fragrancy and Odour of each are forcely discernible one from the other, except by the Strength, Cloves being much stronger than this Bark. We seldom make Use of it in these Parts of the World; but the Natives of the Country where it grows, esteem it as a Cephalick, and good against the Cholick, Wind, Gripings of the Guts, Obstructions of the Courses, &c. taken in Powder from a Dram to two Drams, and in Tincture to an Ounce or two. a Water made of it, that the Hollanders impose upon us for Clove-Water, tho' at an inconfiderable Price, which is a good Stomachick, and an excellent Vehicle to convey any Cephalick or Anticholick Medicine in.

[This is the Cassia Carrephyllata of the Shops: It is the Bark of the Caryophyllus folio et fructu rotundo. Breyn. Pr. 2. 26. Caryophyllus Aroniaticus India Occidentalis foliis et fructu rotundo,

dipyrenis.

dipyrenis, seminibus fers orbiculatis planis. Pluk. Alm. 88. The Tree is plentiful in Guba, and elsewhere in the West-Indies.

The Fruit of this Tree is frequently, but erroneously fold in the Shops for the Carpobal famum,

and sometimes for the Amomum.]

## 6. Of the Peruvian Bark.

THE Kinquina, or Quina-quina, Peruvian-Bark, or the Bark against Fevers, is the external or outward Bark of the Trunk and Branches of a Tree, that grows plentifully in Peru, from whence this is brought us, by the Way of Cadiz. But as I have never been in Peru, to know how to speak exactly of the Trees which produce this Bark, I shall have Recourse to Mr. Bernard, who is a very honest Man, and very curious in the Knowledge of Simples, who had a Description of the Kinquina given him from one who liv'd twenty Years in Portugal, and had made several Voyages to the West-Indies, and to Peru.

### A true Description of the Peruvian Bark.

The Kinquina is the Bark of a Tree that grows in Peru, in the Province of Quitto, upon the Mountains near the City of Loxa. This Tree is almost the Size of a Cherry-Tree; the Leaves are round and indented: It bears a long reddish Flower, from whence arises a Kind of Husk, in which is found a Kernel like an Almond, flat and white, cloath'd with a thin Rind; that Bark which comes from the Trees at the Bottom of the Mountains, is thicker, because it receives in more Nourithment from the Earth: It is smooth, of a whitish yellow without, and of a pale brown within. That which comes from Trees on the Top of the Mountains, is much thinner; it is uneven, browner without, and of a higher Colour within; but the Trees which grow on the Middle of the Mountains, have a Bark yet browner than the other, and more rugged. these Barks are bitter, but that from the Trees at the Bottom of the Mountains, less than the others.

It follows from hence, that the Bark of the least Virtue, is that which grows in the lowest Places, because it abounds more with earthy and watry Parts, than that which grows high, which for the contrary Reason, is better; but the best of all, is that which grows in the Middle of the Mountains, because it has not too much or too little Nourishment. There is another Kind of Quinquina, which comes from the Mountains of Pososi, and is browner, more aromatick, and bit-

terer than the former, but abundantly scarcer than any of the rest.

Belide the Qualities remark'd in this Bark. it ought to be heavy, of a firm Substance, sound and dry. Beware of fuch as is rotten, or hurt by Wet, and fuch as flies into Dust in breaking, or is dirty and unclean, as it happens to be formetimes: But make choice of such as is in little thin Pieces, dark and blackish without, with a little white Moss, or some small Fern-Leaves slicking to it, reddish within, of a bitter and disagreeable Taste; and refuse that which is full of Threads when broke, and of a Ruffet Colour; and take care that there be not several Pieces of Wood mix'd with it, which you have sometimes slicking to the Bark. This was brought first into France, in the Year 1650, by the Cardinal Lago a Jesuite, who having brought it from Peru, it was had in fuch Vogue in France, as to be fold Weight for Weight for Gold, but the Quantities of it foon afterwards brought over, quickly lessen'd the Price.

The Use of this Bark is for the Cure of Fevers, especially intermitting, for which Purpose it is given in Substance, Tincture, or Insusion; but as it is a Medicine some People have an utter Aversion to, and as the Use of it is of ill Effect, unless properly applied; I would advise no Body to make Use of it without the Direction of an able Physician. The extraordinary Virtues which the Spaniards attribute to this Kinquina, for the Cure of Fevers, is the Reason why they give the Tree that bears this Bark, the Name of Pale de Calenturis, which signifies the Fever-Wood.

Kinakina, Quinquin, Cortex Peruviana. The Peruvian, or Fever-Bark, is call'd so from the Tree that produces it in Peru, where it grows, about the Size of our Cherry-Trees; the Leaves are round and indented; the Flower is long, of a reddish Colour, and is fucceeded by a Pod, which contains a flat Kind of Kernel that is white, and enclosed in a very thin Skin. There are two Sorts of it, one cultivated, and the other wild; the cultivated is to be prefer'd much before the other: It contains a great deal of fix'd Salt, and abounds with an Oil : it cures intermitting Fevers best used in the Powder, finely searc'd; from a Scruple to two Drams the Dose: There may be likewise an Infusion made of it in Wine or Water for the same Intention. Some fay that Bark is best which is of the most lively Colour, and enclining to a dark Cinnamon, most curled up, as coming from the smaller Branches of the Tree, that breaks of a shining Colour, is of a bitter Taste, very aftringent; or rough and ftyptick upon the Tongue, and whitish outwardly: The thick, flat,

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dark-soloured, is nothing so good; and if it wants its bitter Taste and Stypticity, it is good for

nothing.

It is a Specifick for the curing of all Sorrs of intermitting Fevers or Agues; and fo certain it is in effecting this Cure, that it feldom fails in a ficiful Man's Hand: Bendes which, Experience wells us, it stops Catarrhs, and all Sorts of Fluxes; but the great Skill of a Phylician is to know to whom, when, how to use it, and how long: First, considering the Nature and Quality of this Medicine, it is evident, it ought not to be given to fuch as have their Courses stopp'd; or to such with whom they feldom flow kindly, but come down pale and sparingly; nor yet to such as are coffive in their Bodies, or are commonly troubled with a Constipation of the Bowels; for to such, the Use of this is generally of ill Consequence; nor ought it to be given in continual burning Fevers, because it fixes the morbifick Matter, stops the Pores, and so encreases the Heat, and concenters it, that it infallibly destroys the Patient. Secondly, when it ought to be given, the Persons to whom we allow it to be given, ought to be prepar'd for the Use of it, by some proper Vomits or Purgatives, such as the Ipecacuana, the emetick Wine or Tartar; and purge with Glauber's Sal Mirabile, or Seletivum, Cream of Tarter, and the like, two or three Times at leaft, before the Use of the Cortex.

Thirdly, You ought to know how it should be given, which is in Powder, from a Scruple, or half a Dram, to a Dram or two; beat it very small and searce it; and about an Hour after the Fit is gone off, put your Quantity of Powder in a Glass of good strong White-White or Claret, and drink it off: There are several other Liquors this may be taken in, according to the Fancy of the Patient. In Insusion, take sine Powder of the Bark one Ounce, Claret ten Ounces; insuse four or five Days, shaking it twice a Day, then decant it clear; it is given in double the Quantity in Insusion, to that of the Powder, because you take the last in Substance; you may make a Tincture with Brandy, or Spirit of Wine, where-

of take half an Ounce.

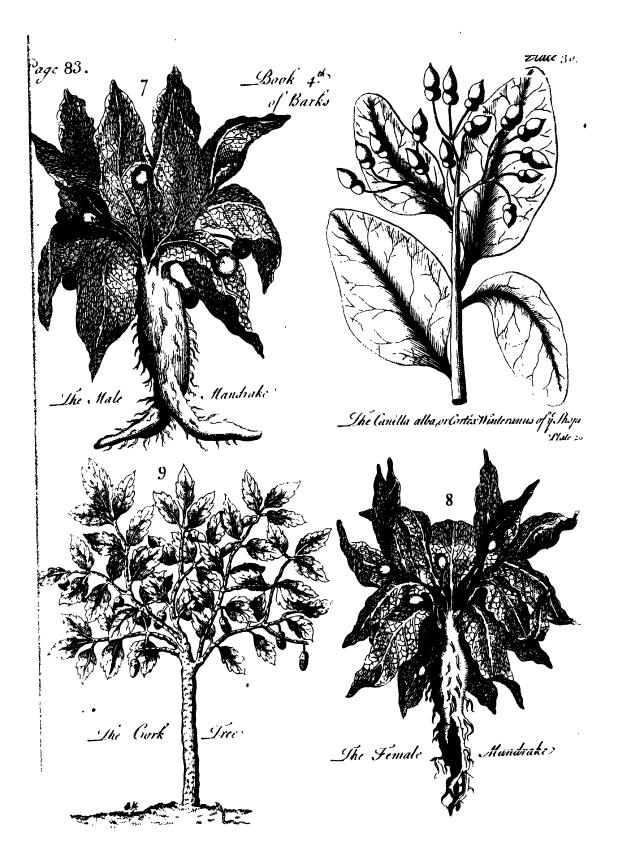
In the fourth Place you ought to consider how long, or often the Bark ought to be taken: Herein you must have regard to the Nature of the Fits, their Strength and Accidents that attend them, as Season, Temperature, Use, &c. In Children, and tender Constitutions, the Dose is to be less, but oftner and longer continued: In Tertian Agues, it ought to be used at the End of the Fit, and taken at different Intervals, till the next Return. When that is over the Remedy must be repeated in the same Manner, 'till the

Expectation of another Fit; what Intervals of Time are to be observed between each Dose, depends on the Quantity of the Powder, or Strength of the Insurance, or Length of the Intermission between each Fit: The stronger the Infusion, the longer Space of Time is to be between each Dose; and if the Intermission of the Fits is long, there is no Need of repeating the Doses so often, as if the Intermission was thorter. The whole Quantity, from the first to the last, ought to be about an Ounce and half, or two Ounces; let it be given an Hour or two before Meat, and two or three Hours after; and if it be in Insusion, let the Quantity taken be about four Ounces.

To prevent the Return of the Ague, this Method ought to be continued for eight Days, three Times a-Day: First, early in the Morning, then an Hour before Dinner; and at Night, an Hour before Supper; but if the Ague should return again, as it does, if you purge after it, the Use of the Bark must be repeated after the same Manner as before, and it will not fail to produce the desir'd Effect, which is absolutely to cure the Ague, so that it shall not return any more. But tho' the Ague seems to be perfectly gone, for several Revolutions of Fits, yet it is necessary to continue the Use of the Remedy, for twelve Days, by which Means you will secure the Patient against any fresh Assault.

It is at the End of the Fit that the Dose is to be given, and it must be continued 'till the Cure is persected; which in a single and double Tertian, commonly happens at the second Fit, or at most at the Third: The same is to be undershood in a single and double Quartan, wherein you have two whole Days to give the Medicine in, without Intersuption; in which, as in the Tertian, the Ague is master'd at the third and sourth Fit, if not at the very first, which often happens; and to prevent its Return, the Use of the Bark is to be the longer continued after the Cure; for 'tis the too hasty Discontinuance of it, which causes the Relapse, and puts the Patient to a new Trouble of running over the same Course again.

This Medicine ought not to be given at the coming on of the Fit; nor yet during the Time of it; because then, instead of alleviating the Force and Violence of the Ague, it would be apt, by Reason of the sebrifick Ferment, to excite a fiercer Conslict, and make the Paroxysm the more violent. This Method being observed, the Medicine will intercept the Course of the Disease in its Progress; and being conveyed into the Mass of Blood, by a gentle Motion, it purifies it, and destroys the severish Ferment, which would produce a new Fit. It ought likewise to



be given at several Times, to produce, gradually, the wish'd-for Effect; and but a small Space of Time ought to be abow'd between each Dose, that the second Bose may begin its Operation, when the Force of the first is ever; and the third may begin to act, when the strength of the second is lost. It is given, in like Manner, two or three Hours after, that the children in the Stomach, in under to the linerance into the Manner, the Stomach, in under to the linerance into the Masses of Blood, to correct, departure into the Masses of Blood, to correct, departure, and the Masses it. If this Course is purfixed, the Consider manner certain and infallable, and it will hardly be possible for the Fit to return again. When the Paroxysm is gentle, in a good Halits, and a good Scalon of the Year, there is no necessary giving it above five or fix Days together, once or awice a Day in the Intermission; but when the Paroxisms are strong, oftner, as before direction;

This is the Bath of the Arber febrifuga Peruviana Incolis Gannanaperiali, Jons. Dendr. 476. At hor febrifuga Perusiand China China et Quinquina et Gamanaperide della, R. Hist. 2. 1976. When this Tree has been Aripp'd of its Bark, in a few Months it produces a new one, like the Cork Tree; what we have is of three Sorts or Degrees of Goodness; the first of a bitter and refinous Tafte, not so red as the common Sort: the second something less, and cover'd with a Moss, the third, the finest, and in the smallest Quills. The Use of this Bark, the Spaniards say, was discovered by Accident, an Indian, in a Fever, accidentally drinking the Water of a Pond, into which feveral of thefe Trees were fallen, was cut'd by it; which made his Friends and Acquarrance fearch into the Occasion, and so difcover this incitimable Medicine.

Notwithstanding all the good Caudities of this Bank, there requires the Skill of an experienced Practifer to use it; for, in ignorant Hands, it is tapable of doing as smith have, as good in skilful. !

# 7. Of the Bark of both the Mandralecs, Male and Famale.

Pomet. Plant than is diffuse of the Root of a Pomet. Plant than is diffuse such de into two Kinds, Made and Female. I shall not trouble myself with the weless Accounts that the Autients have given of this Root, but inform you that both Sorts are the scarce about Paris; so that the Apothecaries are obliged to leave out the I t if of this, as well as that of Navel-wort, in the Composition of the Ointment of Poplar; which is a great Abose, it being impossible that

the Composition can have the Virtues the Author of it design'd, or that are now ascrib'd to it, when the principal Diseas are left out. Besides, the Apothecaries, which is contrast to the Opinion of whole Authors which is contrast to the Opinion of whole Authors who treat of this and fire, that the cooling Quality of the Change of Parallel to the Cooling Constitute of the Composition true, are forced to send for it from Mantpellies, by which means they discharge their Consciences, and serve the Publick factifully.

The Membrake, as it grows, bears targe green Leuves, trailing of hanging upon the Ground, and the Freit is very like that of the Colombinida: We fell nothing but the Bark of the Root, freed from its woody Part. The of an Ala-Colour within, and a little more reddish without, of forme small Use in Physicis, as it is put into some of the Galenical Compositions. With the Bark we have formetimes some of the Root brought us cut into Pieces like Jalap, but it is of little Use, the Heart of it having no more Virtue than a Chip.

The Mandrake is a Plant without a Stem, of which there are two Kinds: Lemery. First, the Mandragoras Mas fructu retundo of Tournefort. The Leure rife directly from the Root, above a Foot long, broader than a Man's Hand in the Middle, and narrow at both Ends, smooth, of a brownsh green Colous, and a disagreeable Smell. Among these rise short Stalks, each of which bear a Flower made like a Bell, divided commonly into five Parts, a little hairy, of a white Colour, inchning to Purple. When the Flower is gone, it is succeeded by a little round Apple as big as a Mediar, flishy, and of a yellow green Colour: It contains some white seeds, which bear the Figure of a small Kidney. The Roof is long, thick, whitiby flit, or divided theo two confiderable Branches, for about with fiort Filamonts, flerider almost as Plains; representing, when it is whole, the lower Parts of a Man; from whence it is call's Anthropomerphan which fighthes the Figure of a Wan.

The second Sort is called the Feinale Mandrake, Mandragora Famina, or Mandragora store subceviles purpurascente, according to Tournesort, the Mandrake with a bluffi purple Flower. It differs from the former, in that the Leaves are smaller, narrower, more solded, blacker, trailing on the Ground, of a strong stanking Smell; and that the Flowers are bluish, inclining to Purple, the Finit less and paler, not sound like a Pear, as some Authors will have it, but round, scented, sull of Juice, and containing very smill black Seeds. The Root is about a Foot long, divided into two M 2

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Branches, brown without, white within, and furnish'd with some Fibres, but nothing like the former. Both Sorts grow in the hot Countries, in the Plains, or mountainous Places; but the last much rarer. They contain in them a great deal of Oil and Flegm, but little Salt. They are narcotick, cooling, stupifying, &c. applied outwardly, and likewife relieve Inflammations of the Eyes, Erysipela's, scrophulous Tumours, and the like. The Apples are cold and moist, but not so cold as the Root. Being smell'd to, they cause Sleep; fo also their Juice taken inwardly, in little Quantities, in a good generous Wine. The Antidotes against their Poison are Wormwood, Rue, Scordium, Mustard, Origanum, Castor, &c. with Wine and Vinegar. The Antients, by Mandrake, intended another Plant, quite different from this.

[The Male is the Mandragora mas, Dod. Mandragora fructu majore, C. B. Pin. 169. The Fermale, the Mandragora fructu Pyri, C. B. Pin. 169. Mandragoras famina Trag. They are kept in the Gardens of the Curious, and flower in April. Our People who deal in medicinal Herbs, fell the Leaves of the common black Henbane for the Unguentum Populneum, instead of those of this Plant. It was formerly esteem'd to have a strong narcotick Quality, and order'd to be given before an Amputation, to deaden the Sense of Pain, by stupisying the Patient; but it is now never used in such, or indeed hardly in any other Inten-

tions.]

## 8. Of the Autour Bark.

THIS Bark very much resembles, in Size and Colour, the large or gross Cinnamon, except that it is more decay'd on the Outside, and of the Colour of a broken Nutmeg within, distinguish'd with many little Sparkles. It is very light and spongy, of an almost insipid Taste, and without Smell. They bring it from the Levant to Marfeilles, from whence it comes to us. This is of no other Use, than as the Chouan, to add to the Persection of Carmine Colour. A Person assur'd me that it grew about Paris, and gave me a Piece of a Bark, which is something like it, but of a bitter Taste, and an earthy Colour, without any Sparkles.

[This is never feen in the Shops, nor used in

Medicine.]

### 9. Of the Cork-Tree.

Pomet. CORK, which the Latins call Suber, is the outward Bark of the Trunk of a Tree, which grows plentifully in Spain, Italy, and France, chiefly in Gascony, and

upon the *Pyreness*. The Leaves of these Trees are of a moderate Size, green on the upperside, and whitish underneath, indented all round; it bears Acorns like those of the Oak.

When the Inhabitants of those Parts would gather this Commodity, they take off the Bark of these Trees from the Top to the Buttom, and after put one Piece upon another, to a reasonable Height, in a Pit or Ditch that is full of Water; and having loaded it with Weights to keep it down, they leave it in this Condition for some Time, and when it is swell'd, soak'd, and laid strait, they remove it to another Ditch, and so to a third and sourth; and after that take it out of the Water to dry: Which being done, it is transported in Bales to different Parts of the World.

Chuse your Cork in fine Boards, all of a Piece, not full of Knots or Chinks, of a moderate Thickness, yellowish without and within, and fuch as is even when it is cut. We commonly call this Cork, white Cork of France; because this Sort is prepar'd in Guienne, chiefly from Bayonne, from whence almost all that is used in France comes. We bring from the fame Parts another Kind of Cork, which we call Spanish Cork, and which, to be fine, ought to be light, plain, blackish without, as if it had been burn'd, yellowish within, and easy to cut, not rotten; but take the thickest Sort you can get, that being much more esteem'd, and dearer than the thin. A Friend of mine affur'd me, that the Blackness of this Cork proceeded from nothing elfe, but that it was steep'd in Sca-Water instead of fresh Water.

The Use of this is too well known to need any Account of it; I shall only tell you it is of some small Use in Medicine, as to stop Bleeding, being reduced to Powder, or put into some aftringent Liquor: Burn'd, and mix'd with the Unguentum Populneum, it is very proper for the Piles. The Spaniards burn Cork into an extraordinary since Black, which is what we call Spanish Black, and is used for several Sorts of Work.

Suber Latifolium, the broad-leav'd Cork, according to J. Baubin, Gerard Lemery. and Parkinson; or the Suber Latifolium perpetuo Virens of Tournefort, the broad-leav'd Cork that is always green; is a Tree of a moderate Height, very much resembling the Oak, but the Trunk is thicker, bearing fewer Boughs, and the Bark is a great deal thicker, very light, spungy, of an Ash-colour, tending towards a Yellow, which is taken from the Tree first, and afterwards freed from an inner Bark; the Leaves are like the Holm Oak, but much larger and longer, fofter, greener on the Outlide, sometimes a little indented; the Cups and the Acorns are also like those of the Oak. This Tree grows in the hot Coun-

tries.

tries, as Spain, Italy, towards the Pyrenees, and in Gascony; that which grows in Spain is different from those that grow about the Pyrenees and in Gascony, in that the Bark is black on the outward Surface, and the Leaves continue green all the Winter; whereas they fall from the others at the End of Autumn.

The Acorn of the Cork is aftringent, and proper in the Wind Cholick; the Dose is from about a Scruple to a Dram; it contains a great deal of Oil and little Salt; but the Bark has less of the Salt, and more of the Oil; it is detersive and aftringent; it stops the Hemorrhoids and Belly-Aches, being beat to Powder: It is proper to heal the Piles, being burn'd and applied outwardly.

[This is the Bark of the Suber Latifolium perpetuo virens, C. B. Pin. 424. Suber Latifolium, I. B. 1. 103. It is kept in the Gardens of the Curious. The remarkable Property of this Tree is, its bearing, the Lofs of its Bark without Damage, and producing, in Time, a new one.]

### 10. Of the Capers Bark.

THE Cortex Capparis, or Cappers Bark, is the Bark of the Tree of that Name; it is brought dry from Italy and Provence. It should be chosen new, and of a piercing bitter Taste. It is warm and diuretick, cleansing and detergent: It

is given in Swellings and Hardness of the Spleen, and is an Ingredient in some Compositions.

[This is the Bark of the Root of the Capparis retundiore folio, Ger. 748. Capparis Spinofa folio retundo, R. Hist. 2. 1629. The Capers, so common in Pickle with us, are the Buds of the Flowers of the same Tree.

There are besides a great many Sorts of Barks, in which we have no Trade; as the Bark of the Root and Trunk of the Tree call'd Macer, the Coru, and Hrvorabé, and others, which we have but little of, and which nevertheless are reckon'd good Medicines, as may be seen in Authors, who have wrote Histories of Indian Drugs, to which the Readear may have Recourse; but as many People make Use of Mace in Bloody-Fluxes, some sell this Macer in the room of that, believing it to be the same Thing, though there is a vast Difference, this being the Bark of a Tree, but Mace the covering of the Nutmeg.

[The Coru Bark is the Coru of Acosta, Gáricas, &c. The Hivorahé, properly Hyvourahé, a Brasilian Word, fignifying a scarce Thing, is the Hyvourahé of Thevet; and the Macer the Bark of the Ulmo affinis vasculis Membranaciis et semine intus incluso composito, R. Hist. 2. 1799. But as these are never used, or heard of with us, a more particular Account of them would be foreign to

the Intent of this Work.]

The End of the Book of BARKS.

# BOOK the Fifth.

# Of LEAVES.

# PREFACE.

Mean by Leaves the Verdure of Trees, Shrubs, and Plants, and shall therefore only comprehend, in this Book, the Leaves which issue from the Branches or Stalks of Trees or Plants, as these Parts of Plants only ought to be called by that Name. Some use the Word Leaf for the component Parts of Flowers, as Roses, Tulips, and others; calling them Rose Leaves, &c. But as I have not follow'd that Method, I shall here only treat of the green Leaves which grow from the Stalks, and not of those colour'd Leaves which compose the Flowers of Roses, &c.

In this Book I shall also treat of such Leaves as are work'd for Use; as the Tobacco, and such as we have the Fæculæ, or the Salts drawn from; as the Anil or Indigo, the Kali or Glasswort, and others.

1. Of

Of Dittany of Crete.

Ditaur of Come or Can-Feet high whose Leaves are of the Sale with thape of a Man's Thumb, white and worthy both on the Sales and under Sides after which rife Flores on Spikes of A Visite Colour. This Plant, which is very beautiful to like upon, grows planting in the file of Candia, from whence it takes its Things.

Chuse your Dittery fresh and seed, with fine, white, large, thick, soft would beave, of a sweet aromatick Table, as placer such as is firmish'd with the despetible. However, not hairy, and where you meet with faller of little Sticks than Leaves. This Ditter is of some Use in Physic' because of its warm to fome Use in Physic' because of its warm to finantick Quality, and is an Ingredient in the Valice Treacle, and some other Preparations.

some other Preparations.

Origination Constant latifolium tomen-Lemery, tofum to the Constant Creticus of Tour-nefore, is a Control Originam, or a ine white Plant agreeable to the Eye: The Stalks grow about two Feet him thing, a little purplish, divided agreeable or Twigs; the Leaves are of the Bigness of the Nail of the Thumb, roundish and pointed, with a small End, cover'd on both Sides with a white Down, odoriferous, and of an acrid pungent Tafte; the Flowers grow spike-fashion on the Top of the Branch, of a pusple Colour; when the Flower is gone, there follow four Seeds that are almost round, enclosed in a Covering that serves as a Cup is the Flower; the Roots are small and numerous. It grows in Candia, on Mount Ida, from villages it is brought dry. The Leaves are aperative cordial, proper to provoke the Terms in Women, to halten Labour-Pains, to open and respore Obstructions, so relift Porton, and terms away-malignant Humours by Transpiration. It is given in Powder for all the fame Purpoles: Dose to a Dram, and half an Ounce of the Decoction, or Tincture, in White Wine, for Sickness at the Stomach.

[This is the Dictornus Creticus, C. B. Pins 222. Park. 27. Didamme Creticus, five verus, J. B. 3. 253. Its Place of Growth is the Island from whence it has its Warne, but it is cultivated every where in the Cardens of the Curious; it flowers in July; it has been look on as a vulnerary Cordial, Ga bet is little effecta'd at present, and scarce ever wind but as an ingredient in some of our Compositions.

2. Of Poley Mountain,

THERE are two Sorts of Poles

Manuain, the White and the Pomet.

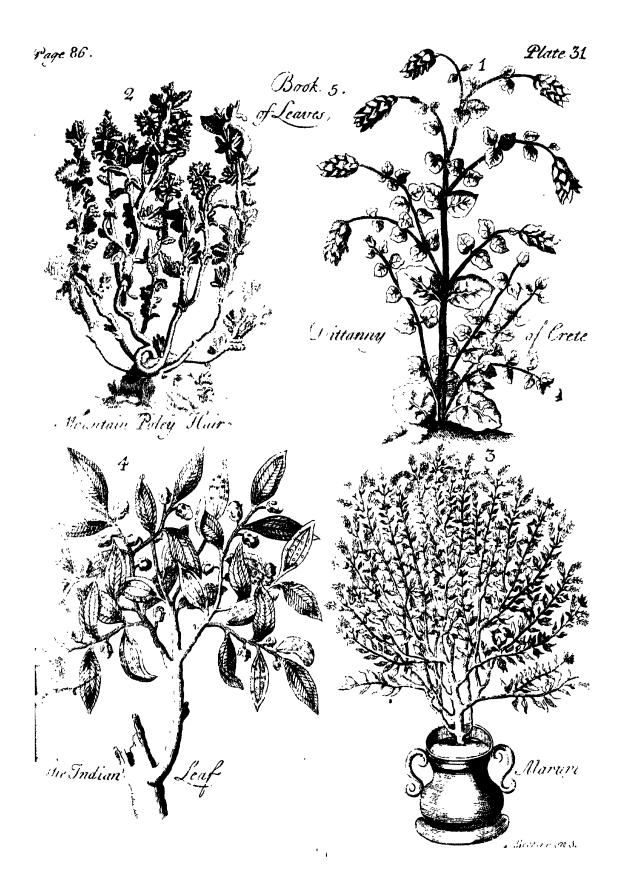
Yellow; the Yellow Poles Manual is
a Plant of the Health of halfs Poots, having finall thick indented Lawes, garnille d above and below with a fine yellow Down, inclining to a Gold Colour, and the Piowers around of a Gold Colour, very fine to look upon; of an aromatick Smell, and bitter Talto. This little Plant grows plentifully upon the Manualine and high Hills. plentifully upon the Mountains and high Hills about Provence and Language; it is brought to us in little Bunches with the White, which grows in the Plains, or by the Way Sides, chiefly in fandy or other dry Places, being, notwithflanding, very different from the former, in that the Leaves are much less, and not so woolly, bitterer, and altogether white; they are used in feveral Compositions, and are counted alexipharmick and cordial. Chuse such as are newly gather'd with their Flowers on, of a bitter and disagreeable Taste.

Polium Montanum, or Poley Mountain, is a Plant whereof there are two Lemery. Sorts, one yellow, and the other white; the first is call'd Polium Montanum luteum, by Tournefort; or Polium Montanum vulgare, by Parkinfan: It is of a fmall Height, very hairy and woolly, bearing a great many flender, round, hard, woody Stalks; the Leaves are finall, oblong, thick, and indented; the Flowers, fays Mr. Tournefort, are divided into five Leaves, as the Germanic Dower; when that is dropp'd, finall round Seeds follow, that are enclos'd in a Covering, which ferves as a Cup to the Flower: This Plant grows on mountainous and rocky Places in Languedoe, Provence, and Dauphine.

The second Sort is call'd Polium Montanum albeen, by Tournefort, &c. and the Poley Mountain of Montpellier, by others. It differs from the former, in that the Stalks lie upon the Ground : the Leaves are desk and not fo full of Cotton; the Flouvers are whiter, and less scented. This Plant grows not only on the Mountains and hilly Places, but likewife in the fandy dry Plains, by the Road Sides, in Languedon and Provence. Yellow is the best and most valued in Physick. This Plant yields a great deal of exalted Oil and volatile Salt; the Tops are chiefly that which they call in Latin, Goma Polii, or Poley-Hair.

They are aperitive, cephalick, fudorifick, vulnerary, provoke Urine and the Terms, relift Putrefaction, fortify the Brain, and expel malignant

Vapours from the Head and Heart.



The White is the Pollum Montanum album of most Authors; Polium Montanum Monspeliacum, Park. 24. this is a rumon in France and Italy; The Yellow is the Polium Montanum luter most Authors; the Polica Montanum vulgare, Park. 24. this grows in Spain and some Parts of France; they are both kept in the Gardens of the Curious here. There are also two other Species of this Plant, call'd Officinal, which are the Polium alterum of the Shope's the Polium Lavendulæ folio, C. B. Pin. 220. Polium Lavendulæ folio flore alba, Ger. Em. 655. and the Polium Mentanum Officinarum of the Catalogues of the Officinal Plants in Chelfea Garden; this is the Polium Maritimum ercotum Monspeliacum, C. B. Pin. 221. Polium Monspessum, J. B. 3. 299. These have all the same Virtues, but are very little regarded in the present Practice.]

### 3. Marum, or Herb Mastick.

THE Marum is a little Plant that Pamet.

I looks pretty to the Eye; the I caves are greenish, very small, and Spear-pointed; the Taste very bitter and disagreeable, and therefore it is call'd Marum quasi Amarum, as being bitter. After the Leaves tome Flowers in Spikes, almost like those of Lavender, which are of a purple Colour, and strong secured.

This Plant grows plentifully in the Isles of Hyeres, near Thoulan, from minence those who have occasion for it mechanist brought. Chuse it fiesh, adoriterous, smaith'd with Flowers, and as even as possible. It is little used in Physick, onthis in the Composition of the Treches of Hedgeroi, and the like; but Apothecaries frequently substitute Amaracus, which is what they call Sweet Marjoram, in its Place.

Marum is a Plant that has two Spe-Lemery. cies; the first is call'd Chamadrys Maritima incana frutescens foliis Innecolatis, coording to Tournesort, which is the hoary Sealeanuarder, with Spear-pointed Leaves. It is a best of Germander, or a little Plant which grows is Thyme, with a great many Branches, or with cound Twigs, woody and whitish, cover'd with Leaves larger than those of Garden-Thyme, and liker Wild Thyme; the Flowers like those of Germander, of a purple Colour; when the Flower is gone, it bears in its Place four Seeds that are almost round: The whole Plant has an odoriserous Smell, and a piquant biting Taste: It grows in the hot Countries, but is introduced now into most Gardens.

The fecond Kind is the Marum vulgare; which is a Plant whose Stalks, Branches and Leaves,

are like Marjoram, but something higher; for this grows near two or three Feet high, being woody, and extending it Branches; it has some Resemblance to the first fort of Atomen, but is larger, whiter, and of a bitter smart Taste; the Flowers and a eds are like those of Thyme; the Root is woody, and all the Plant of a ftrong Smell, that is aromatick and agreeable enough; the best is that which grows in Spain, and other hot Countries; it requires a dry frony Ground; both Sorts abound with Plenty of Oil and volatile Salt, with a little Phlegm. The Marum is cephalick, fromschick, fudorifick, vulnerary, and uterine, being good against all cold and moist Difeases of those Parts, Cramps, Convulsions, Burstings, Strangury, and the Bitings of mad Dogs, Serpents, and other venomous Beafts, being a famous Alexipharmick. It is likewise useful in all malignant and peffilential Fevers. Dose from a Dram to two Drams. The Herb is of the Nature of Origanum and Sweet Marjoram, and has all their Virtues. The distill'd Oil may be given from two Drops to fix, against cold Head-aches, Megrims, Vertigos, Apoplexies, Lethargies, Palsies, Weakness of the Nerves, &c.

[The Marum of the Shops, is the Marum vulgare, Park. 12. Thymbra Hispanica Majorana folio, Tourn. Inst. 197. It is kept in Gardens, and slowers in July. It is accounted a Cephalick, Sudorifick, and Aperitive, but is seldom used.]

## 4. Of the Indian-Leaf.

THE Folium Indum, Thamalapatra,
Malahathrum, or Indian-Leaf,
comes from a large Tree that grows in
the Eaft-Indies, about Cambaja.

The Antients knew as little of this Leaf as of many other Drugs, fome having writ that it was found swimming upon several Lakes in the Indies: But the most rational Opinion is, that this Leaf comes from a Tree of the Size of the Lemon. Among the Leaves grow small Berries, very like those of Cinnamon, except that they are less. Some of these Leaves have on their Under-Side a Kind of little Bladder, of the Bigness of a Pin's-Head, which some People will have to be the Seed.

I cannot understand for what Reason the Antients made use of this Leas in the Composition of Treacle, since it is almost without Smell or Taste; notwithstanding, I cannot positively affirm that they were to blame in it, because when it is fresh gather'd it may have both; but I never could find that it had any sensible Qu dity at all; however, as I am not able to prevent the Use of it, or hinder its Sale, I shall direct you to chuse

it in fair Leaves, large, and the greenest and least broken that may be.

Folium Indum, seu Malabathrum, or the Indian-Leaf, is the Size of one's Hand, like the Lemon-Leaf, of a pale green, imooth, and hining having three Nerves that run length-ways upon it. It grows upon a Tree that is found in Candaja, from whence it is brought dry'd. Authors advice us to chuse the freshest, having a weak Smell when bruised, like Cloves, and of an aromatica Taffe; but none of the Leaves that are brought to us have any thing of these Virtues, but appear person insipid and taltelets. By a chymical Diffilation it affords an Oil and a flegmatick Spirit, which contains some little Salt in it. This Leaf is not and dry, agreeing in Nature and Virtues, as they will have it, with Spikenard, or, as others, with Mace. It is warming, digefling, and firengthening; comforts a cold Stomach, and helps Digestion. The Powder is diuretick, stomachick, alexipharmick, and an Antidote against the Plague. Dose from half a Dram to a Dram. A Tincture of it in Wine or Brandy causes a sweet Breath; bathed on the Eye-lids it strengthens the Eyes, stops the Rheum, and abates the Inflammation.

[See a more perfect Account of this Last at the End of the Chapter of Cinnamon, where it naturally came under Confideration, as the Leaf of

one of the Trees of that Species.]

## 5. Of Tea.

THE Train which the People of ChiPemet.

In a and Yapan call Cha, or Tcha,
is the Leaf of a little Shrub which
grows plentifully about their and Nankin in Chizua, and in leveral Parts of Japan. This is reckon'd the best and from its excellent Qualities,
is call'd the Flower of Cha. or The. It is a sender green Leaf, pointed at one Little, and foundish at the other, and a little cut to indented
round about and in the Middle of seach Leaf
there runs a Flament, or String from whence
proceed a Number of little Place. In a Word,
it is of the Shape of the Place. In a Word,
it is of the Shape of the Place. In a Word,
it is of the Shape of the Place, in a Word,
it is of the Shape of the Place, in a word,
it is of the Shape of the Place, in each of
which was taken from a Brapid which was
given me by a Person of Babbity, who prought it
from Holland. Among the Leaves, from several
Husks, which are each of the Rice of one's Finger's End, of a very particular shape, in each of
which are found two or three Seeds of the Figure
of the Areca, of a Mouse-coldar strey without, and within having a white Kernel, very
subject to be worm-each.

This Japan Tea differs not from that of China, but only as the Leaves are much smaller, and the

Tafte and Smell more agreeable, and it is usually of a finer, clearer green. This Difference of Smell, Tafte and Colour, has raised the Price; to that the Japan Tia, as describ'd before, which is the true Sort, of the fine Miller Taveler, will fell for two Thirds more than that of China.

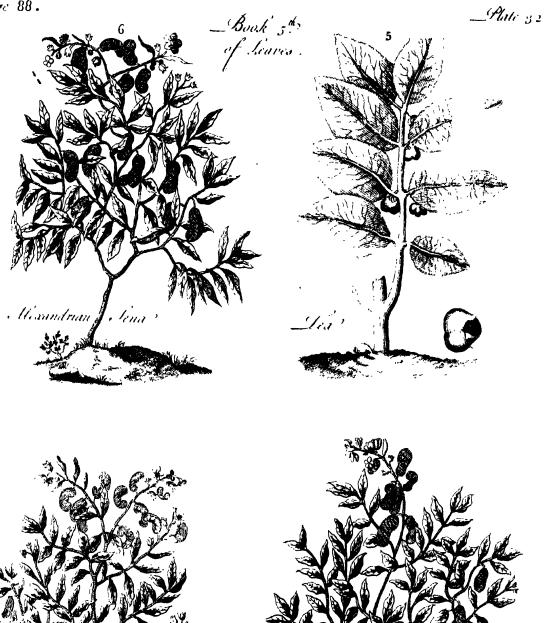
fell for two Thirds more than that of China.

The Tsa which the battle for the said other Nations bring the is at tartle study, and other Nations bring the is at tartle study or twifted Leaves, as it is now fold altern the country; who, after they have pathed at, in the general herore the Fire, and the Teaves, in drang curful further as we now for the mine. And that the Huyer may not be imposed on in this Commodity, which always bears a considerable Price let blin chuse that which is the greenest, the self-self-self, and which is as little profession. Dust or small Powder as possible, and prefet that as I have observed, which comes from Japan, before that of China.

The Tea is formuch in vogue with the Eastern People, that there are very few who do not drink it; and the French fome Years up had it in universal Esteem; but since Cossee and Chocolate have been introduc'd into that Country, there is nothing near the Quantity used as was before. I shall say nothing of its Virtues, but refer you to such Authors as have treated particularly of it, especially the Sieurs de Four and de Blegny.

I cannot pass over this Article, without faying something of the Flower of Tea; the Person who gave me the Leaves, made me at the same Time a Present of a Sort of Tea entirely different from the common Tea, in that it is of a blackish brown Colour, and more of the Shape of a Flower than a Leaf; and, whether this be a Leaf or a Flower, it is so valued by the Dutch, that they sell it Weight for Weight for Gold, which is about sour Pounds are Ounce; as well by reason of the small Quantity they get of it, as for its agreeable Smell and Taske, particularly when it is new, in which it abundantly excels the true Japan Tea.

The chief Region that this is become such a good Commodity to buy in Europe, is because the Dutch, &c. have it in Euchange for Sage, which the Japonese and Chinese are great Lovers of which is not without Region, since we have not a Plant that is endow'd with more Virtues than Sage, especially that Soft which, for its singular Goodness, is call'd sage of Virtue among us; and is the same with the French Sage; and it is certain, that if this grew in India, it would be much more valued; but because it is common, we make no Account of it, notwithstanding the Latin Proverb, Cur morietur looms, cui Satoria crescit in horto? Why should any body die that has bage





in his Garden? So that we need not wonder if the Chinefe, &c. exchange Tea for it.

It may not be improper in this Place to refute the Error into which the Author of a Treatife of Tea, Coffee, &c. has fallen, when he fays that this Tea produces a blackish Seed, which he saw brought into France; but he was wrong inform'd, since the Fruit of the Tea, as I have said before, is of the Shape of the Areca, and the Size of an Acorn cut in two, and is cover'd with a thin Shell, of a Chesnut Colour. This Author observes, that there is a sebrisuge Syrup made of Tea, to which he attributes great Virtues, which those who desire to know farther of may consult his Treatise for.

The, or Tsia, is a very little Leaf, Lemery. which is brought dry'd from China, Japan, and Siam. It grows upon a small Shrub, from whence it is gather'd in the Spring, at which Time it is little and tender. The Figure or Shape of it is oblong, pointed, thin, a little indented on the Sides, of a green Colour. The Flower is composed of five white Leaves, form'd like a Rofe; and some Stamina; which, when gone, is succeeded by a thick Cod, like a Hazel-Nut, of a Chefnut Colour, in which are found two or three Nuts or Berries, which contain in each a little Kernel, of an ill Tafte. Root is fibrous, and fpreads upon the Surface of the Earth. This Shrub flourishes equally in rich or poor Ground. The Leaf is more used for Pleasure in the Liquor we call Tea, than for any medicinal Purpose; but it has a great many good Qualities, for it lightens and refreshes the Spirits, suppresses Vapours, prevents and drives away Drowliness, strengthens the Brain and Heart, haftens Digestion, provokes Urine, chanses or purifies the Blood, and is proper against the

[Tea is the Leaf of the Styraci & Euonymo Mediæ affinis. The Sinensium sive Tha Japonenplus, store niveo, simplici & pleno, Br. Pr. 2. 98. Thea frutex folio Cerasi, store Rosæ sylvestris, fruetu unicocco, bricco, & ut plurimum tricocco, Kamp. Hist. Jap. 2. Ap. 2.

We have fix Kinds of Tea used in England; r. The Bohea, of a dark Colour, giving a brown Tinge to the Water it is insused in; 2. the Congou; 3. the Peco; 4. the Green Tea, call'd Singlo, of which there are two Kinds; the one with oblong narrow Leaves, the other with smaller; both equally good, and both of a blueish sieen Colour, crisp to the Touch, and giving a tale green Colour to Water they are insused in; the Imperial Tea, the Leaves of which are large and loose, and less roll'd together than those of the former Kinds; the best is green, crisp in the

Mouth, and has the most agreeable Flavour: the fixth is that call'd the Hyfon Tea, now most used among Persons of the upper Rank. All these Kinds are the Leaves of the fame Tree, only differing according to the Time of gathering and Manner of curing. These are much more used for Pleasure than as Medicines; the Bobea, however, is esteem'd softening and nourishing, and good in all inward Decays; the Green is diuretick, and carries an agreeable Roughness with it into the Stomach, which gently aftringes the Fibres, and gives them such a Tensity as is necesfary for a good Digestion: Improper or excessive Use may make this, or any thing else that has any Virtues at all, do Mischief; but there are very few Instances of that; and with Moderation, it certainly is one of the best, pleasantest, and fafest Herbs ever introduced into Food or Medicine, and in the frequent Use of which. People generally enjoy a confirm'd Health: 'The Green indeed, if drank too freely, is prejudicial to fuch as have weak Lungs; fuch People. therefore, ought to drink the Bobea with Milk in

### 6. Of Senna.

THE Senna, which some call the Eastern Leaf, comes from a Plant, Pomet. or rather a Shrub of about a Foot high, which grows in several Parts of the Levant, and also in Europe. This Plant, or Shrub, bears Leaves which are more or less green, and of different Shapes, according to the different Places where they grow. Among the Leaves come little Flowers of a purple Colour, in Form of Stars; and after them, thin slat Pods, in which are contain'd five or six small Seeds, likewise slate broad at one End, and sharp at the other; and these Pods are what we call Senna Husks.

As Senna is a Leaf that is very common among us, from the great Sale of that Commodity, I must inform you there are three Sorts, which we distinguish into Alexandrian Senna, Tripili Senna, and Macha Senna; and under these three Kinds there are several other Species, which have no Disserence, but from the Places where they are cultivated, as the same Species may have a Variety in the Leaves, Flowers, and Fruit, from the Nature of the Soil where it is cultivated: The finest Sort, and best in Quality, is the Alexandrian Senna, that comes from the Levant, which pays a Tribute to the Grand Signor; this the Turks call Palte.

Chuse this Senna with narrow Leaves, of a moderate Size, of the Shape of a Sprai Point, yellow. th colour'd, of a strong fragrant Smell, in a

manner

manner fweet, the least broke, full of Sticks or dead Leaves, or any other Filth that may be. This Description of Senna will undoubtedly appear ridiculous to some People, who have no great Knowledge of it, who will have it that the best Senna is that with great, broad, green Leaves: But I am satisfied that no body that understands Senna will contradict what I say; and the rather, because I must be allow'd to be a Judge of it, from the vast Quantities of this Drug that have pass'd thro' my Hands; besides that, I have by me the entire Plant, from whence the Figure is engrav'd, as it was brought to me from Aleppo. The Use of Senna is so common, it would be needless for me to say any more, than that it is a very good Purgative.

The fecond Sort of Senna is that of Tripoli, which is a green Senna, fold fometimes, but very rarely. It comes next in Virtue to the Alexandrian, but is usually more churlish, and has very little Smell; notwithstanding which, it is bought

up by those who understand little of it.

The third Sort is the Mocha Senna, which the Hawkers call Pike Senna, because the Leaves are long and narrow, that is to say, twice as long as the true Senna from the Levant. The ill Quality of this Senna is sufficient to warn you against the meddling with it all; for it is good for nothing.

As to the Folliculi, or Senna-Husks, their Excellency ought to engage the Physician to prescribe them more frequently, because they purge very gently, and scarce give any Taste or Smell to the Medicine, contrary to the Leaf, which gives fo bad a Taste, that most People refuse to take the Medicines made with it. Chuse these Shells thick, large, and of a greenish Colour, with the Seed which is within plump, well fed, and almost like the Stones of Raisins, only flat. Throw such away as are blackish and dry'd, as not fit for internal Use. You may make an Extract of Senna, by Means of Fire and Water, and also a Salt, to which some People assign great Virtues, and pretend by its Help to make Infusions of Senna of greater Force and Efficacy. Some Authors have writ, that there is Plenty of Senna to be found in Italy, especially in Tuscany, and about Genoa; but I believe that these Kinds of Senna are rather the Leaves of that Plant which the Botanists call Colutea, or the Wild or Bastard Senna; an Account of which may be feen at large in Botanick Authors.

There is a Plant found in France, which the Botanists call Gratiola, which purges more than Senna. There is, besides, another Plant, which the Simplers call Alypon montis Ceti, because it is found plentifully at Cette near Montpellier, which

purges more than Senna: Some call this Alypon, White Turbith.

Senna, Folium Orientale, or Sena, is a little longish Leaf, which is brought Lemery. dry'd from several Parts of Europe. It grows on a small Shrub, and is of two Kind; the first is call'd Senna Alexandrina, sive folia: acutis, the Alexandrian Senna, or that with sharppointed Leaves, by Baubine and Tournefort: It carries its woody Stalks a Foot and a half, or two Feet high; from whence come Leaves that are oblong and narrow, pointed, of a yellowish green; the Flowers are made up of five Leaves each, after which come stat crooked Pods.

The fecond Sort is call'd Senna Italica, five foliis obtufis, by Baubine and Tournefort, or Italian Senna with blunt Leaves: It differs from the former, in that the Leaves are larger, more nervous, broad, and blunter at the End. We are furnish'd by the Merchants with three Sorts of Senna; the first and second of which are call'd the Levant Senna, and the last Mocha Senna, as Pomet has described them. The Leaves and Pods of all the Sorts afford a good deal of Oil and Salt.

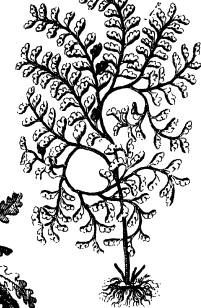
Other Accounts of Senna distinguish it into True and Bastard; the True is of three Sorts; first, the Alexandrian, with sharp-pointed long Leaves, fresh Smell, strong Scent, free from Stalks, finaller or narrower than the other Kinds, of a lively Colour; this is the best of all. 2dly, That of Aleppo, which is generally fuller of Stalks and Dust, and has a shorter and blunter Leaf than the former. Chuse that which has a good strong Smell, of a pale green Colour, well cleanfed, and not musty: This is next in Goodness to the former. 3dly, The Indian Senna, which is much like that of Aleppo in Form, is the coarfest Sort of all, and the worst, and becomes something worse and weaker by reason of its long Carriege from the Indies hither, being often heated in the Hold of the Ship, where it is spoil'd. The Baftard Senna is the Colutea, or Wild Senna, spoken of before.

The Leaf of the best Senna is the most famous and common Purge against serous Humours and Melancholy, which it discharges from the Head, Stomach, Lungs, Liver, Spleen, Womb, and Joints; but it gripes sometimes, by reason of the sharp Humours from the Body that join with it, and upon which it acts. It is corrected with Cinnamon, Cloves, Galingal, Ginger, &c. It is a general Purger, and may be quicken'd in its Operation by Sal Gem, Salt of Tartar, and Tartar Vitriolate: It is seldom given in Powder, but in Insusion or Tincture, from half an Ounce to two Ounces. There are eighteen or twenty Prepa-

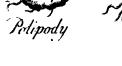
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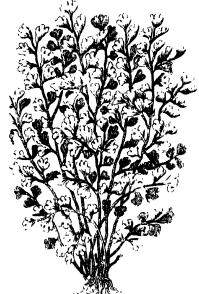




Maidenhair of Canada



Ceteraich of y Shops



Maidenhair of Montpellier



Scolopendrum



Salvia Vita or Wall Rue

J. Beckington Tou

rations of this Leaf in Use, in the most common Dispensatories, as the Extract Benedictum, Decotium Sennæ Gerconis, Quercetan's Cathartick, and the like.

[The best and right Senna of the Shops, is the cast of the Senna Alexandrina, five folias acusti;
B. Pin. 397. Senna Orientalis, Ger. 1114.
It pows in Syria, Levina, Persia, and Egypt: The Leaves of this are narrow and pointed.

The worse Sort of Senna, too often sold in the Place of this, is the Last of the Senna Italica folius eleusis. Boeth Ind. Alt. 2. 57. Senna Italica, Park, 225. The Leaves of this are round-ish and something Heart-sighion'd at the End. It purges less, but gripes more than the true Senna.]

#### 7. Of Maidenhairs.

Pomet. The Maidenhairs are little Plants
Pomet. that are brought whole to us from
feveral Parts; the chief and most efteem'd, is that which comes from Canada, and is
call'd Maidenhair of Canada, and, by Botanists,
Adianthum album Canadense, or the White Canada Maidenhair. This grows about a Foot high,
with a very stender Stalk, hard and blackish;
from whence there arise small Branches bearing
green Leaves, pretty deep indented, as may be
seen by the Figure: It grows likewise in Brass.
This is cultivated with great Care in the King's
Garden at Paris, as well as many other Sorts of
exotick Plants, which were brought from several
Parts of the World by Messieurs Fagon and Tournesset, the most eminent Botanists we have had.

Besides the Maidenhairs which we have from Canada, we have also the Syrup sent to us, which to be of the best Kind should be Amber-colour'd, of a good Taste and Consistence, smelling neither sour nor musty, truly made in Canada, and as

clear and transparent as possible.

Great Virtues are attributed to this Syrup, especially for Coughs, Catarrhs, and Diseases of the Breast; it is also administer'd to Infants newborn, with a little Oil of Sweet-Almonds. As to the Choice of Maidenbair, you must take such as is newest, very green, and the least broke that you can get.

Besides this Maidenbair and the Sytup, we have from Montpellier another Kind of Syrup, call'd Capillaire, which is made from a Plant the Botanists call Adianthum album Montpellier, or the White Maidenbair of Montpellier, The Syrup of this is little different from that made of the Canada Maidenbair; when saithfully prepared; it ought to be of an Amber-Colour, and a very agreeable Taste. There are other Syrups of Maidenbair, and the like, prepared in the South-

ern Parts, as of Black Maidenbair, Golden Maidenbair, Scolopendrium, and Ceterach; some add Polypody, Salvia Vita, or common White Maidenbair, and Liquorice; and all these Plants together make a red Syrup, which they sell as well as the Syrup of Maidenbair. Some Apothecaries distil a Water from the Maidenbair, and make a white Syrup of it, which the very well, but it is no more Virtue than a plain Dissolution of Sugar. Sometimes there comes from Montpolier a liquid. Conserve of Maidenbair, but it is very scarce, and little enquired for, has to the Preparations of the Syrups, I stall say nothing further; but those who would make the Syrup of Maidenbair of Canada or Montpellier, may consult such Books or Dispensatories as treat of them.

Adianthum, or the true Maidenhair of the Shops, is a Plant that bears feel Lemery. veral flender, blackish Stalks, of about half a Foot, or a Foot high, divided into fifte delicate Branches, which are adorn'd with little Leaves, like those of Coriander, almost triangular, fragrant, and of an agreeable Tafte: This Plant bears no Flowers; its Fruit, according to Mt. Tournefort's Observations, is produced in a Folding of the End of one of the Leaves; which after it is firetched out, encloses several spherical Coverings which are caked to the faid Foldings, and cannot be discover'd but by the Affistance of a Microscope: These Capsulæ, or Coverings, are furnished with, as it were, a Purse-String, which by its Contraction opens them; they contain some little Seeds in them that are almost round: The Root is fibrous and black; it grows in shady, moift, or flony Places, against Walls, or Sides of Wells and Ditches: The best they have in France grows about Montpellier in Languedoc.

It is brought likewise from Canada, Brafil, and several other Parts of America. where there is a Sort of the dried Maidenbair, a great deal larger than ours, call'd by C. Baubine, Adianthum fruticosum Brasilianum, and is the same with the Maidenhair of Canada: The Stalk is slender. hard, and of a brownish red, or purple Colour, tending to black, divided into many Branches, which bear little Leaves, almost like the common Sort, long, and indented on one Side; but whole on the other, foft, tender and fragrant; this is what is most valued, as being the best scented of all the Maidenbairs. It is common in several Parts of America, and especially in Canada; so that the Traders pack up their Goods with it instead of Hay, when they would fend them to a distant Country; 'tis by this Means we have such Quantities of it; but it would be much better if they would pack it up in Paper, or Bags, which would preferve the Scent and Virtue of it. Chuse

N 2

fuelt as is fresh, green, well scented, whole and fort to the Touch. This Plant contains little Phiegm, a good deal of Oil, but not much Salt; alley are pectoral, aperitive, and raise the Spittle, Pweeten the Blood, and provokeWomens Courfes. They give the Name of Maiden-Hair to four other Kinds of Plants, which in some Measure re-Semble the Adianthum, and to which they attri-bute the like Victim, viz. Filicula, Coterach, Wall-Rue, and Paperichen aureum, or Golden Maiden Hair.

The Administration Automorphisms, and Politrichum mobile vel primare, is a little Plant about the Length of a Man's Finger, bearing many Leaves, on Stalks almost as fine as Hair, of a yellowith Colour; the Stalks bear on their Tops little longish Heads, the Roots are very little like small Threads: This Plant grows in the Woods, and against old Walls, and in Bogs and marshy Places; it is a good Sudorifick and Antipleuretick, being inhis'd half a Handful in a Pint of boiling Water, as you make Tea, and used after the same Manner.

Polytrichum vulgary, or the Trichamanes of the Shops. M. Tournefert has discover'd with his Microscope, that this Plant, as well as the Adianthum, bears a little Seed roul'd up in the End of the Leaf, which is very small, and almost round, cover'd on the Ribs with a great many light Particles like Duft; the Roots are very small and firingy; it grows like the other Sort, and is reckon'd a good Pectoral, aperitive and proper for Obstructions of the Liver and Spicen, and in Womens Cales.

Generarh of the Shops, or the true Scolopendriven, in a Kind of Maiden Hair, or a Plant whose Leaves resemble, in some Manner, Polypody, but they are much less, cut in almost round; their back Parts are reddish or yellow, hairy, and cover'd with a little scaly Matter: M. Tournefort has made a Discovery of a Seed in this Plant unknown before: This grows in wild Places in hot Countries; and those of Languedoc call it usually Golden Locks, because of its near Approach to Hair and its golden Colour. It is pectoral, and particularly appropriated to the Di-Leafes of the Spleen, and is a good Aperitive.

The true Maidm Hair is the Adignthum foliis Coriandri. C. B. 355. Capillus Veneris Verus. Ger. 982. This grows in France and Italy.

The Canada Maiden Hair, which is another Species of this, is the Adianthum fruttuofum Brafilianum. C. B. Pin. 355. Adianthum fructuesum Americanum summis ramulis restexis & in orbem Expansis, Pluk. Almag. 10.

The other Kinds used in Medicine, or kept in

the Catalogues of Officinal Plants, are

1 m

1. The Polytrichum Aureum majus. C. B. P.

This is a large erect Moss, and different in Form from all the Maiden Hairs.

2. The Trichemanes, Park. 1051.

3. The Adianthum Album. Rai. Hift. 1. 146. 4. The Adianthum migrum rulgare.

741. And
5. The Adianthum Album fajo Felicis. J. B. 6.
741. Dryopteris Alia Ster. Consc. 1835.
The Ceterach mental at this Chapter is the Afplenium five Ceterach. L. B. 64. And is not properly a Species of Mander Hair.

The Constant of Mander Hair.

These were all once in great Esteem, as Pectorals, Ballamicks and Restoratives; but have of late lost much of their Credit, and are now seldom seen in Prescription To

#### 8. Of Sea-Bind-Weed and Winter-Green.

Soldanella, or Complevilles Maritimus noftras, of M. Tournefort: The Pomet. Sea-Bind-Weed is a small Plant, whose Roots are flender, and the Leaves like those of the Aristolochia, or Birthwort, except that they are less and fomething thicker; among these grow Flowers, very much refembling those of the common Bind-Weed, of a purple Colour. This Plant is brought to us entire from Maritime Parts, where it grows in Abundance; 'tis much used in Medicine, topurge off dropfical Humours; for which Reafon Mr. Brice Bauderon made it very properly an Ingredient in his hydragogue Powder: You need take no further Care about the Choice of it, only that it be new and as little broke as possible. Befide this Soldanella, we fell another Herb call'd Pyrola, or Winter-Green, of which there are two Kinds, a larger and a smaller; its Leaves something resemble those of the Pear-Tree, from whence it takes its Name, and is also call'd Winter-Green, because it preserves its Verdure all Winter, in spite of the hard Season. It is a Plant pretty common in some Places, as Germany, and other cold Countries. And as this Plant is something scarce in these Parts, our Herbalists sell to those who want it the young Leaves of the Pear-Tree, raised from Seed, which it is not easy to detect, because of the great Likeness between one and the other: Tis faid the Decoction of this is a very great Affringent, and that it is very proper for the Cure of Ulcers, and other Maladies of the like Nature.

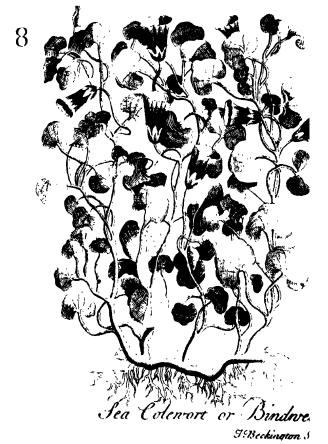
The Pyrola bears leveral little Stalks, at the End of each of which is a small roundish Leaf of a brownish Green; from the Middle of the Leaves arises a Stem, whose Top is adorn'd with many little white Flowers, of a very good Smell, and the whole Plant is not above a Foot, or a Foot and a half high; it delights much in the

Northern









But 5.

Lemery. Colescort, or Convolvatas Maritimus no-Arai according to Tournefort, Sea-Bind- Platiters and Oi West; is a Spot term Biggs West, or a final Plant stry up Woulds. that lends forth llender, winning, reddill Stalks, that excep upon the Ground. The Leaves are almost round, intooth, filining, like those of the lesser celandine, but theker, full of a milky Juice, tied by long Tails, the Flowers are in Form of a Bell, with the Mouth turn'd upwards, as other Kinds of Bind Ward, and of a purple Colour: When these are gone they are succeeded by a Fruit that is almost round and membranous, which contains a corner d Seed, black or white; the Roots are finali and fibrous: The whole Plant has a bitter Tafte, and is a little faltish; it grows near the Sea-fide, and flowers in June. They dry It entire with the Root, and so it is transported. Chuse such as is fresh or new, as little broke as may be; it yields a great deal of cilential Salt and Oil, purges violently, and is used in Dropsies, Palies, Diseases of the Spicen, Scurvy and Rheumatism: The Dose is from a Scruple to a Dram.

Pyrola, Winter-Green or Sea-Green, is a Plant of which there are feveral Kinds. I shall only take Notice of two that have some Use in Phyfick: The first is call'd Pyrola nostras vulgaris, by Parkinfon, or Pyrola rotundifolia major, by Tournefort, the greater round-leav'd Winter-Green. It bears from the Root five or fix Leaves, supported each by a long feparate Foot-Stalk, by which they trail upon the Ground; from among these riles a Stem, about a Foot high, furnished with several little pointed Leaves, which bear on the Top sweet-scented Flowers that are very beautiful to the Eye, composed each of many Leaves, in the Shape of a Rose, of a white Colour, having fomething rifing in the Middle that refembles an Elephant's Snout, which, after the Flower is gone, becomes an angular Fruit, divided into five Cells, fill'd with a Seed that is as small as Dust; the Root is thin, fibrous and winding, all the Plant of a bitter Tafte and very aftringent.

The fecond Sort is call'd Pyrela minima, or . Pyrola retundifelia minor, by Tournefort, the lesser round-leav d Winter-Green. It differs not from the former, but only as it is less in all its Parts. These Plants grow in mountainous Places, many, Bohania, Marwing, and other Northern Countries, from whence the dried Leaves are brought; but they are very corre at Paris; Take of Water and Oil-Olive, out of the Leaves of the Care left the Merchant, too greedy of Gait, And, or Indigo-Plant: There is a Difference bemix young Pear-Tree Leaves with them, which it is not easy to diffinguish. They are both very

Northern Countries, which makes it very rare in aftringent, vulnerary, cooling, proper in Fluxes of the lower Belly, Hemorrhoids and Inflammations of the Breaft, being taken in Infusion or Powder; they are likewise used externally in Platters and Ointments, to stop Blood, and to

The first of these Plants is the Soldanella Maritina . C. B. Pin. 293. Soldanella vulgarit, mabilis Marina. Park. 161. It grows

on the Sea Shores, and flowers in June.

The Second is the Pyrola nostras vulgaris. Park. 508. Pyrola rotundifolia major, C. B. Pin. 191. And the other Species of this the Pyrola folio mucronato serrato. C. B. Pin. 181. tenerior. Park. 509.

But neither of these are now ever heard of in

the Shops.]

#### 9. Of Anil, whereof Indigo is made.

THE Indigo Plant grows about two Feet high, with round Leaves, of Pomet. a Green, inclining towards Brown on the upper Side of the Leaf, and Silver-colour'd underneath, and pretty thick; after which come Plowers almost like those of Pease, of a reddish Colour, from whence come long crooked Pods, resembling a Sickle, which enclose a little Seed in them, like Radish-Seed, of an olive Colour.

When the Americans fow this Plant they first dress the Ground, and afterwards make Holes in it about a Foot Distance one from another, and into each Hole they throw ten or twelve of these Seeds, which they cover lightly with Earth, and in three or four Days Time this little Seed will be fure to appear, especially in a wet Season; and in two Months, or fix Weeks fometimes, this Plant will be ready to cut and make Indigo of, as the Sequel will shew; and, if it is left in the Ground, in three Months Time it will yield both the Flower and Seed: What they fear most, upon account of this Plant, is a Kind of Caterpillar, which in St. Christopher's they find fometimes to breed in a Night, and ruin all the promising Hopes of the Inhabitants: The Way they have to remedy this is, immediately to cut down all the Plant, and throw it into a Vat, or Tub, with the Caterpillar and all, which also are of some Service. The other Way to remedy this Misfortune is, to clear a large Space betwixt what they have eat, and what they have not touch'd: This Havock is not leen in Martinico.

Indige is a Fecula, or Settling, made by means tween that made of the Leaves only, and that which is made of the Leaves and fmall Branches.

The choicest of the former Sort is that which bears the Sur-Name of Serquisse, from a Village of that Name, which is twenty-four Leagues from Surat, and near Amadabat. It is made likewise about Biana, and Cossa near Agra, also in the Kingdom of Golconda: The Dutch also bring some of it from Brampour and Bengal, but that is the least valuable of all.

When the Inhabitants of the Places abovenam'd would make the Feculæ of Anil, in order to make Indigo of it, they cut the faid Herb with a Sickle, when the Leaves begin to fall upon touching them; and after they have stripp'd them from the Branches they put them into a sufficient Quantity of Water, which is in a Vessel call'd the Steeping-Vat, there letting them infuse thirty or thirty-five Hours; after which they turn the Cock in order to let the Water run off, which is become of a green Colour, inclining towards Blue, into a Vessel of the Nature of a Churn, where it is work'd by a Negro, by Means of a Rouler, or Turner of Wood, the Ends of which are pointed and faced with Iron; this they work 'till the Water abounds with a Lather, then they cast into it a little Oil-Olive; to wit, one Pound into fuch a Quantity of the Liquor as will yield feventy Pounds of Indigo, fuch as we fell; and as foon as the faid Oil is thrown in, the Lather separates into two Parts, fo that you may observe a Quantity curdled, as Milk is when ready to break; then they cease working and let it stand to settle; which when it has done some Time, they open the Pipe or Cock of the Vessel, in order to let the Water clear off, that the Fecula which is fubfided may remain behind, at the Bottom of the Vessel, like Dirt of Lees of Wine: Then taking it out they put it into Straining Bags of Cloth, to separate what Water was left; then they convey it into into Chests or Boxes that are shallow, to dry it; and being dried, it is what we call Indigo, and that Name is given to this, in all Appearance, because it comes from India. Sometimes the Indians make their Indigo in a Sort of Ponds, made in Form of a Bason, which they prepare with Lime, that becomes of an equal Hardness almost to Marble.

Chuse the Indigo of Serquisse, in flat Cakes, of a moderate Thickness, neither too soft nor too hard, of a deep Violet Colour, light, and fuch as fwims on Water, and when broken has no white Spots in it; and laftly, such as is copperish or reddish on being rubb'd with one's Nail, and has the least Dust or broken Pieces among it.

We have no Sort of Commodity liable to more various Ways of being fophisticated, or counterfeited, than Indigo, when it bears a good Price; which, if I should attempt to relate, it would

make a small Volume of itself; but I do not think it necessary, since it is easy to distinguish that which is good from the bad, by what I have

been directing about its Choice.

We have another Sort of this, call'd Chefnut Indigo, or Agra Indigo, which is almost as good as the Serquiss; but as the Form does not recommend it to all the World, it is only in Use with the Dyers. There come to us, belide this, feveral other Sorts of Indigo, which have no other Difference than what arises from the Places where they are made, and the different Seasons and Age of the Herb from which they are made; for the Indigo made of the Plant of the first Gathering is better than that of the Second, and the Second better than the Third; the younger the Leaf is which is used, the finer the Indigo is, being of a more lively, shining, violet Colour.

The Use of the Indigo is for the Dyers and Laundresses, serving the last to put among their The Painters use it to grind with White, for painting in Blue; for if it is used alone, and neat, it turns black; ground with Yellow it makes a Green. Some Confectioners and Apothecaries very preposterously employ this to colour Sugars to make Conferves with, and Syrup of Violets, by adding some Orrice; but there is no danger of being thus cheated if the

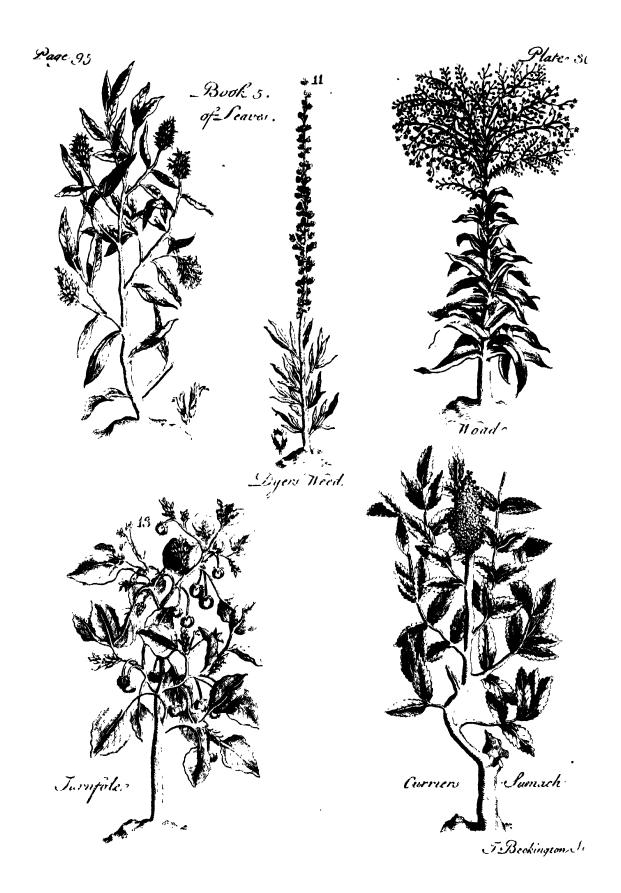
Syrup is bought of reputable Persons.

#### 10. Of the other Sort of Indigo.

THIS Indigo is also the Faculae, made from the Anil, which differs not from the former, but as it is made of the whole Plant, Stalk and Leaf; the best of which Kind is that which bears the Name of Gatimalo, which comes from the West-Indies. It ought to be light, moderately hard, reddish upon one's Nail, such as will swim upon Water; and, in short, to come as near the other Kind as may be. The furest Proof of its Goodness is its burning upon the Fire like Wax, and leaving only a little Ashes behind.

The fecond Sort of this Indigo is that of St. Domingo, which differs not from the Gatimalo, only that it is not of so lively a Colour. third is the Jamaica Indigo, that is brought to England. The fourth is that of the Lecward-Ifles; all the Sorts are better or worfe, according as they are more or less neat and pure; for those who make this, mix it fometimes with Sand or Dirt; but the Cheat is easy to discover, in that the Indigo, which is fine and neat, will burn like Wax; and when this is burnt, the Earth or Sand will be left behind. M. Tovernier observes, in his Book, Page 242. that the Indigo Dust is so subtile, and fo penetrating, that those who fift it are obliged





to have their Face covered, and drink Whey very often and the bears of the Resemblance of this Plant, which bears some Resemblance or Affinity to Indigential and March, he says, having pursuant the Breath of the Morning, near the Sitter of the Morning of the Leaves of Wood, as the Indigo is made from Anil.

This Wood is very heavy, it is used by the Dyers.

Lemery, rin said of More of Indigo-Herb resembling the More of More, and then put into Places to heat and two Feet had the Leaves round and pretty of the more of More, and then put into Places to heat and true Feet had the Leaves round and pretty of the more of More, and then put into Places to heat and true Feet had the Leaves round and pretty of the more of More, and then put into Places to heat and true feet had the Leaves round and pretty of the Morning them with Water, and stirring the more of the Morning that the Leaves are cut at the End of February, or at the Beginning of March, and then put into Places to heat and true feet had the said that the Leaves round and pretty of the Morning them with Water, and stirring the more of the Morning that the Section of the Morning the more of the Morning that the Section of the Section

Olive Colour, All the Plant has a bitter piquant Taste. Of this they make Indigo [as described ... by Pomet before.] The Leaf is reckon'd vulnerary, and proper to deterge and cleanse old Ulcers, being applied to the Part in Powder; likewife there may be a Frontal made of it to affwage and abate Pains in the Head.

The Indicum, for call'd, because this is prepared only in the Indies, is a blue Flower or Meal, brought from thence, made only of the Leaves of Anil, by the Means of Water and a little Olive-Oil, [as taught before.] There are feveral Kinds of it, but the best is that of Serquisse, call'd so from a Village of thar Name, where it is made. The next is that of Agra, made in Shape of a Chefinut, from whence it is

call'd fo. There is a Meal made of Anil, that is only diffinguish'd from the Indicum spoken of before, as being made out of the entire Plant. Chuse such of this as is the lightest, neat, and clean, moderately hard, and of a fine bright Colour, and that will fwim upon the Water, and flame in the Fire 'till it is almost all consumed.

The Plant from which Indigo is made, is the Indige vera Colatæ foliis utriusque Indiæ. Piul. Trans. 276. Nil seve Anil seve Indigo Indica. Hist. Ox. 2. 202. Emerus Americanus Siliqua incurve. Tourn. Inft. 666. It is common both in the East and West-Indies. It has been generally effective a Roifon, and the Use of it is strictly prohibited by the Electors of Saxony; force Phylicians, however, have prescribed it in the Jaundice and some other Cases.]

#### 11. Of Word or Dyers Herb, and other Herbs used in Dying.

THERE is cultivated in France, specially near Thouloufe, a Plant which is call'd in Latin, Ifatis, or Wood; and by the French, Peftel, Grefde, and

two Feet the Leaves round and pretty rot, moistening them with Water, and stirring thick. The Flowers are like those of Pease, red, them twice a Week; and when the Herb is redish, and the coeffed by long crooked Pols, conditioned in a Manner to Dirt, and become dry, taining in them. Seeds like Radish-Seed, of an they put it into a Corner, and lay in its Place a they put it into a Corner, and lay in its Place a fecond Crop of the Leaves, which have forung up fince this was rotting: When this Crop is rotted in like Manner, they put it to the first, and bring in a third Crop, and afterwards a fourth, for they continue cutting it 'till the End of September, at which Time they make the fourth and last gathering; and this it is which makes it of that bad Quality, and fills it so with Dirt; for the Wood made of the first Cutting is much more efficacious than that which is mix'd with what is cut in September, as well because it is mix'd, as that the Leaves are much harder, and fuller of Sand and Gravel, occasion'd by the Winds and Rain, which happen during that Seafon.

The Dyers that use this Commodity, dry the Drofs or Scum of it; which, when dry, bears fome Refemblance in Colour to Indigo, and is fold by the Name of Endigo Flower, which has given Occasion to Authors that understood not the Commodity, to take this for true Indigo, as Dalechamp and others did. One may see by the present Description, that it is possible of the young or first Leaves of this Kind of Wood to make a blue Flower, or Meal, like the Indigo. Belide this Wood, they bring from Picardy a Plant which the Dyers call Yellow-Weed, and the Latins Luteola. We have also another Sort that comes from Provence, for the Use of the Dyers, the Leaves and Stalk whereof are green, which is what the French call Serect, from the Arabian Word Screet. This Plant is likewise call'd Dyers-Weed, or Emall Broom; and by the Inhatants of the Commies, from whence it first came, Orisel.

Beside the Plants already mention'd, we bring from Portugal, especially from a Place or Sea-Port call'd Porto, a certain Commodity, which is nothing else but Leaves and young Branches of a Tree we call, after the Arabs, Sumach, beat or pounded; and is the fame that is often call'd by the Leather-Dreffers, Rouffe. This Commenty is in great Use am ng the Tanners, Dyers and Curriers, to dye green with.

The best Sumach for dying is that which is greenish and new. This Commodity obtains the Name of Port of Port, from the Place it comes from, being Porto. Beside the great Use which the Dyers make of the Leaves of this, we use the Fruit, which grows in Clusters, and is of a very fine red, and a sharpish Taste; it is an excellent Remedy for the Flux of the Belly, being boil'd in Water with the Pomegranate Bark. The Fruit, fton'd and dried, are what we call Sumach Bervies; they have the fame Physical Virtues, except that they are not so strong, because of their being dried. They will not keep good above a Year, because their Sharpness and Astringency are then loft.

#### 12. Of the Dutch Turnsole in Paste and in the Cake.

THE Dutch Turnfole is a Paste made, according to the best Information I can get, of the Fruit or Berry of a Plant which the Botanists call Heliotropium Tricoccum, or Turnfole, (which Perelle, or a dry'd Earth that is brought from Auvergne in France, Lime and Urine: After ha- ? been stain'd by this Fruit.] ving mix'd these four Drugs together, they put them into little Barrels that hold about thirty Those that make the Turnfole in Paste, do not fell it always foft, but sometimes in Form of square Cakes of Bread, which, after it is dried, is what we call Turnfole in the Cake; as when the Paste is new made any Thing will mix and be hid in it, the Dutch, and others, feldom full to throw in a Quantity of Sand, to encrease the Weight; and that's the Reason that the Turnfole in Cake, or that which is dried, is reckon'd better than the foft. This Cake Turnfole ought to be dry, of a Violet blue; and striking a blue, and not a red Colour, on Paper.

It is used by the Dyers, Cardmakers, and

others, instead of Indigo.

#### 13. Of Turnsole in Rags.

THE Turnfole in Rags, is so call'd because it is nothing but Rags which have been colour'd red with the Turnfole Fruit, by the Affistance of fome Acid. What is commonly fold in the Shops is nothing but old Rags, or old Linnen, dipp'd either in the Juice of the blood-red Grape, or that of Mulberries, and fo dried in the Sun: But this is a Cheat, or an Abuse of the first Design; for the true Turnfile ought to be dipp'd in the Juice of the Berry of the Herb call'd Turnfole. This Plant, which we call Turnfole, the Greeks

call Heliotropion, the Sun-Flower, because its Flower always turns to the Sun. It bears Berries always three fet together, not much unlike the Palma Christi; whence it is call'd by Pliny, Heliotrapium Tricoccum, the Turnfole with three Berries, which, when they are at their full Maturity. have within them, between the outward Skin and the Kernel, or Seed, a certain Juice, or Moifture, which being rubb'd upon Paper or Cloth. at first appears of a fresh and lively green Colour, but prefently changes into a Kind of bluish purple; and the same Cloth afterwards wet in Water or White Wine, and wrang forth, will strike the said Water or Wine into a red or Claret Wine Colour; and these are the Rage or Cloth which are the true Turnfole, and ought to be fold in the Druggitts Shops, wherewith People colour Gellies, Conferves, Tinctures, &c. as they please; as also to colour all Sorts of Spirits and the like, that have of themselves no Colour.

. It is to be observed, that the Fruit of the Turnfelt makes of itself a very fine blue, but on being touch'd with any Acid, it becomes red; therefore, when we have a Mind to try whether grows plentifully in feveral Parts of Holland) of thing contains an Acid in it, we need to do no more than touch it upon fomething that has

#### Of the Turnfole Rags from Lyons.

That of Lyons is composed as the other, of Perelle, quick Lime, and Urine, to which fome add a Tincture of Brazil-Wood, in order to give it a finer deep red. This is made frequently about Lyons and Auvergne; it ought to be deepcolour'd, and when rubb'd upon Paper the Colour very lively.

The Isatis domestica, sive Glastum, Latifolium of Tournefort, in English, the Broad leav'd Woad, or Dyers-Weed,

is a Plant that bears its Stalks three Feet high, as thick as the little Finger, round, hard, fmooth, reddifh, divided towards the Top into abundance of Branches, cloth'd with a great Number of Leaves, disposed without Order, that are oblong and large as those of Hounds-Tongue, without Hair, of a deep green Colour, and fometimes tending to a Sea-green. The Branches are furnish'd with a great many little Flowers, composed of four yellow Leaves, like a Cross, tied by a flender Foot or Stalk. When the Flowers are gone there arise in their Places little blackish Fruit, divided into Tongues, flat on the Sides, containing each two oblong Seeds. The Root is about a Foot and a half or two Feet long, an Inch thick at the Top, and growing smaller by Degrees downwards, white and woody. It is cultivated

cultivated in the hot Countries narticularly in full Salt There is stale call'd Page 1201 av 11 to 12 to 1 y it to igue, or

entire it client of a co many specific part Telement Te call d Rous Goriaria, Pinners of Current Spines

The Leaves and France both used in Firster, they are very aftringent proper in the Dylentery, menstrual Courses, and Hemorrhoids, in flor Gonorrheea's, and the dike, home will in a Dondiun, or in Powder.

Fig. fine Transfele in Range Transacte Lynns Cloth died at Conffantinople, with Cochment at forms Acids. The Cotton Turneds, and Porns, gal, at Branish Wood, is made from Cotton that is flatted the Blac of a Crown, and dyed in byen or Portugal, with Meftich Cochineal. Both Sorts ? are made Use of to colour Liquors, Fruits, and Gellies.

There is another Kind of Turnfale that is made with Rags dipp'd in a red Tincture, prepared with the Juice of the Berry of Turnfele, and a little acid Liquor. It comes from Holland, Languedoc, (sr. and is used to tinge Wines of a red Colour.

The Turnfole in Patte, or sin Cake, or Stone Surnfole, call'd likewish Green, is a said Patte made up of the Fruit. which that Lime; and Urine, the Colour of the Face with be blue. The Dyers use that which there will be blue and they make it to be it is not be stood. [The Herb five that which the stood is made is the light saive well as the light Green's call of the grant said and the Genistral Timbers Ser. 136. The Sumach is the Rhusser wire, 1291. Rives saite Sumach is the Rhuse faria, 1291. Rous falis

Ulmi. C. B. Pin. 414. And the Plant, with the arries of which the Linnen and other Things are d for Use, is the Heliotropium Tinstorium tri-Pluk. Aim. 182. Ricinoides ex qua paranefel Gallerum. Tourne Inst. 665. Each
Herbs has a Place in the Catalogues of
Plants, and they have all their several
according to many Authors; but the rice takes no Notice of any of them.]

14. Of Tobacco.

is so called because it with plentifully in the Isle of Pomet.

I do by some it is called Nico
I deanse Mr. J. Nicot, a French Embassiance to the Queen Regent, upon which rount it was sikewise called the Queen's Herb.

Is able called Antartick Buglos, because it grows such in those lifes; and Holy Herb, from its Virtues; and last of all Petum, from Petun rest Virtues; and last of all Petum, from Petun, thich is the Name that the Indians give it, and Thich was the first, and is the true Name for it.

France, there being few Gardens where it does hot grow: But I shall not entertain you with a ong Account of it, it having been writ upon by formany Authors, who have esteem'd it more or lefs, according as they have liked or difliked it.

We have Towacco in Leaf, in Roll and in Powder. That is Roll is diffinguished by feveral Names; at first the Brazil Tobacco, which is a black Tobacco, of the Size of one's Finger The second is in a dry reddin Last, roll'd the Thicknels of a large Cane, and send d Saufage-Tobacco, from being like a Sattlage in Shape. And there is another sort in this Form that comes from Holland. The third Kind is that call'd Dieppe Tobacco, and is a little black Roll, of the There are teveral other Sorts of There, as those

As to the Tanage in Provider or Snuff, scented and unscended there are so many Sorts, it is impossible to the Tanage in the sort of many Sorts, it is impossible to the sort of the Tanage in the sort of the Tanage is the sort of the Inhabitants of the Paum, of Theore, namely, Green Tobacco. Tonger Tobates, mazonian Tobacco, and Musk Tobacco. The Savages call all Tobacco, without Diffinction, Yoly. The Green Tobacco is the most beautiful, and of the finest Figure. The Leaves are a Foot broad, and two Feet long, but it is commonly very subject to Decay, and not reckon'd of any great Account. The Tongue Tobacco

Tobacco, is fo call'd because the Leaves grow in the Shape of a Tongue, is very much efteem'd, because it is not at all subject to waste away and These two first Sorts are what are most commonly fold. The Venice, or Musk Tobacco, is much less than the two former. The Leaves are a little rougher, more wrinkled, and pointed at the End, than the others. It is, in Proportion, the least of all, and is the most inclinable to decay, yet the most valued, and the dearest, because the Leaves have not only a Musk Scent, but the Smoke is perfum'd in the burning of it, with a very agreeable Odour, as that of the other Tobacco is unsupportable to a great many But what is further remarkable, is, People. that one Plant of this musk'd Tobacco will communicate its Virtue to four others, so as to make them pass for the same; which is usually practised in the Places from whence it comes. Tho' the Manner of cultivating, and afterwards making Tobacco, be commonly known among the Inhabitants where it grows, it may yet be fatisfactory to a great many curious Persons in these Parts of the World, to have as succinct an Account writ of

it as may be.

They first of all sow the Seed, which is mix'd with five or fix Times as much Ashes. they have fown the Seed well, and that it begins to rife or spring out of the Ground, they cover it every Morning with Branches of Trees, to defend it from the scorching Heat of the Sun, which would burn it up before it was ready to transplant. They make ready the Garden where they design to raise the Tobacco, by clearing, stubbing, cutting, and burning the Wood that is upon the Ground, and freeing it entirely from all Sorts of Weeds. When the Garden is ready, they remove the Plants in a rainy or wet Season, and plant them down again at about three Foot diffance from each Plant to another every way, that it may have Room to spread, without the Leaves touching one another, fo as to make them rot and corrupt. After the Tobacco is thus planted out, Care must be taken from Time to Time, to prevent the Weeds from over-powering it. When the Plant is ready to flower, they stop it short, by cutting it about Knee-high; then pull off the Leaves underneath that hang on the Ground, fo that they leave behind about 10 or 12 Leaves upon a Stalk, which being weeded or howed diligently every feven or eight Days, all that Time cleanling away all Weeds, the ten or twelve remaining Leaves will be prodigiously encreased, and become as thick as a good Skin. To know and try whether it be ripe, they rumple or fold a Leaf in their Fingers, if it break in touching, it is ready to cut: Being cut, they leave it spread

upon the Ground; after which they firing it upon Cords, so that the Plants may not touch one another; and so they leave it to dry in the Air, fifteen Days or three Weeks: They then pull off the Leaves from the Stalks, and take out the middle Rib, and moistening them a little with Sea Water, twift them into a Sort of Rope and afterwards roll them up together.

They make, by Distillation of Tobacco with Flegm of Vitriol, a Liquor that is emetick, or very vomitive, and proper to cure Itch and Scabs, by rubbing lightly with it. There is a black fetid

Oil distill'd from it, by Means of a Retort, which is much of the same Nature. There is likewise a Salt made of it that is Sudorifick, to be given from four Grains to ten, in any convenient

Liquor.

There are feveral other Sorts of Leaves, which we may fell if they come to Hand, as Betel, or Tembul, which are the Leaves of 2 creeping Plant, of which the Indians make a Kind of Troches with Areca and burnt Oyster-Shells, but this Leaf feldom is brought into Europe. The Coca, which is the Leaf of a small Shrub, pretty like the Myrtle, which the West-Indians use as the East-Indians do Betel, and the Europeans Tobacco. The Inhabitants of Peru use the Leaves of Coca two different Ways; the first, in making a Comfit of it with burnt Shells, to secure them from Hunger and Thirst in a Journey; the second, in mixing it with Leaves of Tobacco, which makes them as if drunk or mad, and fets them on a thousand Extravagancies.

The Aleana, or Cyprus, are the Leaves of a Plant which grows plentifully in Ægypt, and the Levant, and which the Indians employ in painting their Nails and Hair yellow, infuling it in Water; and to paint red, putting it in Vinegar, Juice of Citron, Alum-Water, or any other Acids. The Agyptians make an Oil of the Berries of this Plant, which is call'd Cyprus Oil, very fragrant, and proper for relaxing and foftning the Nerves. Several Persons have assur'd me, that the Alcana, or Egyptian Cyprus, is that which the Botanists call Ligustrum Ægyptiacum. There are several other Medicinal Herbs, which the Druggists do not deal in, because the Herbsellers furnish the Apothecaries with what they have Occasion for.

In Places where there are none of these Herbfellers, the Apothecaries have often a great deal of Trouble in fending to a great Distance for a small Quantity of any Herb they want, but they have the Advantage of knowing the Herbs much the better for it, and of using the right Plant, whereas the Herbfellers frequently fell one for

another.

Besides these Herbs, we sell a great deal of a small Seed, of a deep red Colour, no bigger than a Pin's Head, which is sound upon the Root of the large Pinpernel, which the Dyers use by the Name of Seed Cochineal, and sometimes Wood and wild Cochineal. This Cochineal should be chosen fresh, dry, large, high in the Colour, and

the cleanest that can be got.

The Plants that come under the Catalogue of Drugs, are Scordium, Mountain Calamint, Germander, Chamæpitys, White Here-hound or Marrubium, Southern-wood, the great and small Wormwood, Ceterach or Spleen-wort, Betony, Avens, Camomil, Periswinkle, Hemlock, Hart's-Tongue, Hound's-Tongue, Agrimony, Rupture-wort, St. John's Wort, the great and lesser Cen-taury, Melilot, Mugwort, Mint, Baum, Basilicum, Origanum, Savory, Hyffop, Scabious, Thyme, and feveral other Herbs treated of fo largely by all Botanists, that it will be unnecessary to fay any Thing further. We do not fell these Herbs in the Druggists Shops, because of the Herb-sellers; but we fell the fix'd, effential, and volatile Salts, especially those of Carduns, Wormwood, Mugwort, Centaury, Baum, Sage, Rosemary, Succory, Scurvy-grass, Benn, and several other Sorts. But as to the Choice of these Salts, that honest People may not be cheated in the Purchase of them, which is too frequently done by the Chymist and Druggist, who instead of any of these Salts, give 'em either Salt-Peter, Salt of Tartar, or Sal-Polychrest, which they put into so many different Bottles, and write the Names of the feveral Salts upon them: Therefore, I fay, to hinder them from being cheated, let 'em throw any of these Salts upon lighted Charcoal, and if they fly off, or sparkle in the Flame, it is certain they are mix'd with Salt-Peter; but it is not fo easy to discover the Tartar, but only that this Salt is not so soft to the Touch, as these vegetable Salts.

Nicotiana, in English, Tobacco, is a Plant whereof there are principally three Lemery. Kinds, the first is call'd, by G. Bauhinus and Tournefort, Nicotiana major latifolia, the broad-leav'd Tobacco, and by Parkinfon, Tobacco latifolium. There are a great many other Names more curious than instructive, which I shall pass by: This first Kind bears a Stem of about five or hix Foot high, as thick as a Man's Thumb, round, hairy, full of white Pith; the Leaves are broad, and larger than those of Enula Campana, without Stalk, a little pointed, stringy, of a pale, green Colour, glutinous in touching, of a sharp burning Talte: Mr. Tournefort fays, that the Top of the Stem is divided into feveral Sprigs, that fulfain Flowers made like Bells, cut or separated into

five Parts, of a purple Colour; when the Flowers are gone, there is a hufky, oblong Fruit succeeds, that is partition'd into two Cells, containing in them a good deal of small, reddiffused: The Root is fibrous, and of a very biting Taste; the whole Plant is of a strong Smell.

The second Sort is call'd Nicotiana major angustifolia, the great Narrow-Icav'd Tobacco, or Hyoscyamus Peruvianus; in Opposition to the sirst, call'd Hyoscyamus latifolius Peruvianus, the Peruvian Henbane. It differs only from the other, in that the Leaves are narrower, sharp-pointed, and hang to the Stem by longer Tails or Stalks.

The third Sort is call'd Nicotiana minor; the small Tobacco, by Baubinus, Tournefort, and Ray, and by Parkinson, Tobacco Anglicanum, the English Tobacco. It bears a Stalk a Foot and Half, or two Foot high, round, hard, hairy, the Thickness of one's Finger, sometimes branchy, glutinous to the Touch, and carries its Leaves, rang'd alternately, oblong, thick, and of a brownish, green Colour, hanging upon short Stalks; the Flower, Fruit and Seed, are like the first Sort, but the Flowers more inclinable to a yellowish Purple; the Root about a Finger's Thickness, and sometimes divided into white Fibres, that spread themselves round in the Ground. Tobacco is cultivated in fat, rich Land in Gardens, and yields Abundance of a sharp, biting Salt, both fix'd and volatile.

It purges upwards and downwards, with a great deal of Violence, in the Apoplexy, Palfy, Lethargy, Suffocations of the Womb, and in the Afthma taken by the Mouth, or being fomented with it; applied outwardly to the Part, or smoak'd, it relieves the Tooth-ach; in Powder or Snuff it purgeth the Nothrils, and excites Sneezing, and is a very good vulnerary, the Leaf, Ointment, or Powder, being applied to the Wound.

[The Tobacco of the Shops is the Leaf of the Nicotiana major latifolia. C. B. P. 169. Hyoficianus Peruvianus. Ger. 285. It is common in the Gardens of the Curious, and flowers in June; the Species call'd English Tolacco, is the Priapeia quibusdam Nicotiana minor. J. B. 3. 360.

Hyoscyamus lutæus. Ger. 284.

In Regard to the other Things mention'd in this Chapter, the Betle is the Beetle Codi Horr. Mal. 7. 29. Piper longum foliorum Nervis de. w rentibus, tenuioribus et mellioribus Betle dictum. Hith Ox. 3. 603. But as neither this, nor the others that follow it, ever come into the Druggistis Shops, and the Herbs are Part of that Clais of the Materia Medica, which is entirely in the Hands of the Sellers of Medicinal Herbs, I shall not trouble the Reader with a particular Account of them here.

hintal, fee the Chapter of Cichineal.]

151 Of Coral

ORAL, according to Mr. Tours factoris a Plant that grows at the Bottom of the Sea; it has no Leaf, nor is yet known a flave Flower por seed; invertheless if stick to the Rocks by a Kind of Rock, and is cover'd with a Bark that is adorn'd with Pores like Stars, negretato the Bottom; it is divided into Branches, and discovers Rays that the former Analogy to Frores: In thort, it is undoubtedly encreased by its Seed which is an Opinion countenanced by its Seed which is accordanced by the thore that rank Coral among the Number of Plants at is agreed, at this Tay, that it is hard in the Sea; the Softness of the Bale or Fruit, which is moothed almost city, has, terhaps, deceive the physical seafers at the Plant was fit. The Bale is starterous Control of the Plant was fit. thole 🖔 Bark is tarrarous Cont., red up a the sed Contained white upon the white. The Extremities, or Endrof the Branches, are lost, and also produce little Balls, the Size of a sed Googserry divided commonly into fix Cells, fill d with a wanterfumour like Milk, like that of the Tithymale it is fat, serid, and addingent. These little Balls are commonly call a lower of Coral, but ought. with more Reafon, to be named the Caspula of the faid Plant: For our modern Authors have ferv'd, that the white Juice which they yield produces the Coral Plants on any Bodies and which it falls; and belides the Coral they shew at Pifa, which sticks maturally upon a human Skull, I have a pretty large Piece that grew upon a broken Piece of Earthen-ware.

There are properly but three Sorts of Coral used in Physick, namely, the red, the common hite Coral, which has some Resemblance to the or shesh Colour, ought to be judg'd Species this; the write white Coral, which was the from the red but in Colour; this is the forecit and dearest: In its Place they use cook monly that Sort for the white, which J. Banking calls Corallium Album Officinarian Ocularum all white Coral of the Shops, that is full of Eyes ? The back Coral, called Antipother, of no Vie at all: a feems indeed of a different Nature from all the other

They fife for Coral in the Meditor anean, on the Coast of Propose, near Toulas, or Cape Creuse, between Colleges and Ross, upon the Coast of Catalonia, is the Stringly which are twixt Sicily and Italy, towards the Bastion of France, and in some other Parts; as on the Coast of Sardinja, and those of the Isles of Corfica

For the Coccus infettorius, here call'd Seed Co- and Majoren. The Coral-Fifting, according to Mr. Tavernier, is from the Beginning of April to the End of July, in which they mually employ Years leis.

Years less.

As the Conterious is the hollow Rocks where the Sea is seep, in is the Artisce they use to get it up. The Cora History ye two Beams of Wood across, and sing a good Piece of Lead in the middle, to sink them, then they tye Tusts of Hemp about the Leads which are slightly or carelesty sisted the Thickness of one's Thumb, and ye is Beams with two Cords; the one to have a the Prox, and the other at the Stern of the Lock, and the Pieces of Wood are less as the Coral in their Passage: It is necessary, sometimes, to make Use of fage: It is necessary, sometimes, to make Use of five or fix Boats to get up the Beams; and during that Time, if one of the Cables happen to break, they are all in Danger of being lost; there is a great Risk in the taking the Coral out, that some does not all into the Sea; and the Bottom being usually full of Mad, the Corat is apt to be detroy'd as the Fruits of the Earth by Worms; the that the sooner the Caral is got from the Filth

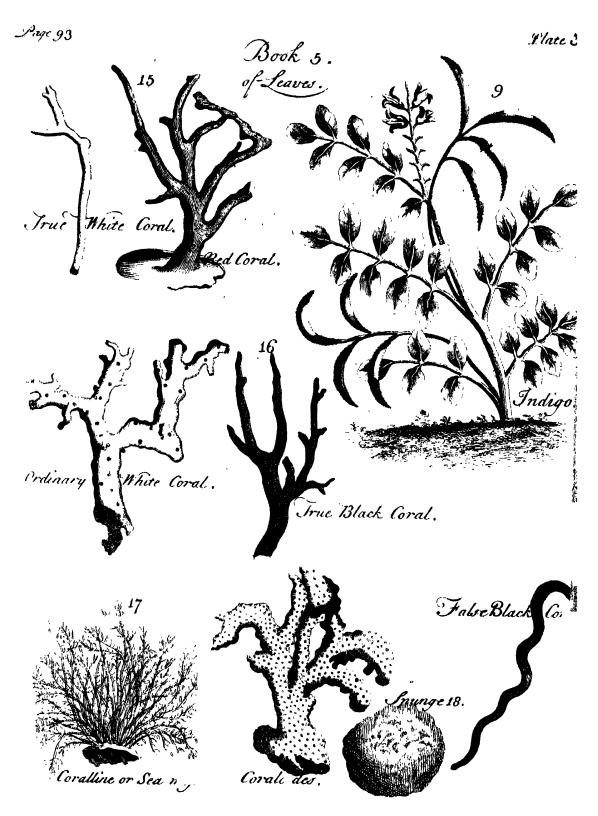
of the Sa, the less it is damag'd.

Of a the Corals the red is most in Use, as ell for Medicine as other Things; and People at the Coral, the Japonese, and other Namost esteem the red Coral; which to be in the Perfection ought to be thick, shining, in fine Branches, and of a beautiful red; the little Proces, and fuch as are cover'd with a crusty Matter, ought to be rejected; inevertheless, as efficacious as the finer. By Means of certain Acide, they make a Tincture of red Coral, which is afterwards reduced to a Syrup, which is reckon'd an admirable Cordial, and ufeful to purify and cleanse the Mass of Blood. There is likewise a Magistery, and Salt, made of this; but the most common Way of using it is, reduced to an impalpable Powder, by levigating it upon a Marble with Rose-Water, &c.

#### 16. Of Black Coral.

US OF THE

A S to the black Coral the true Kind is so rare, that it is alliest impossible to meet with it; for all that we now have, it only a Sort of Plant that is petraned to the Water, which some have call'd Antipather is entirely different from the true Coral, being very light, and more like Horn than Corat whereas the true Sort is heavy, of a reddish black Colour, and very rough; with the utmost Diligence I



I:Beckington

have only been able to meet with one Piece of this, and that no bigger than the End of one's Finger; tho' I have a Piece of the common black Coral, of about two Foot long. As to the Coralloides, it is nothing else but white Coral that is not brought to its Perfection, and is of no Manner of Use; yet it is sometimes sold instead of the White, tho' it is easy to distinguish, it being large, light, and imperfectly form'd.

#### 17. Of Coralline, or Sea-Moss.

THE Coralline, or Sea-Moss, is gather'd from Rocks, or Shells, in the Sea, to which it grows; there are several Sorts of it to be met withal; but that which is assed in Physick comes from the Bastion of France, and other Parts of the Mediterranean. G. Bauhinus calls it, Muscus Maritimus, five corallina Officinarum.

This Mois or Coralline, is of fome small Account in Medicine, as it is said to have a Quality to destroy Worms: As to the Choice, it ought to be greenish, smelling and tasting of Sea Water, and the most free of Dirt and Filth that can be

got.

Corallium, Lithodendrum, or Coral, Lemery. is a stony Plant, that is found growing to Rocks, at the Bottom of the Sea, and crusted over in the Nature of Stone. The chief of what is sold comes from several Parts of the Mediterranean. There are three Sorts of it, acd, white, and black.

The Corallium Rubrum, or red Coral of G. Banhinus, grows commonly three or four Fingers high, but such Corals as are found of any confiderable Length, are kept in the Cabinets of the curious; it bears several Branches without Leaves, that are very hard, smooth, shining, and of a sine red; the Root is rocky, and of the same Hardness: This Coral is the most used and esteem'd in Physick; chuse such as is all of a Piece, polish'd, shining, and of the highest Colour.

The second Sort is white Coral that grows much about the same Height. There are two Kinds of this, one call'd Corallium Album, Oculatum, which is a little stony Plant as the former, the Ends of whose Branches are round, and represent, in a Manner, little Eyes. The other is call'd Corallium Asperum, the rugged Coral; this is a little strong Shrub, about a Hand high, that is samose, cough, white, full of Pores, or little Holes, and much lighter than the former; this last grows not only in the Meditert anian but in the red Sea, and is of small Account in Physick.

The third Kind of Eoral is call'd by G. Baubinus, Corallium extra rubens intus nigrum, or red Coral without and black within, but this is very fearce; and there is substituted in its Stead a false black Coral, call'd Antipathes, which is a stony Sea-Plant, which is usually cover'd in the Sea with a Sort of Bark or tartarous Crust, of the same Colour. When the Corals are young and tender, the Ends of their Branches are found divided into little Balls, of the Size of a small Gooseberry, that are soft, and distinguish'd usually into six little Cells, sull of a milky Liquor, that is of an acrid styptick Taste, and these are call'd Coral Flowers.

Others fay, but improperly, that Coral, while under Water, is green and fost, but when it once comes into the open Air, it changeth both its Colour and its Nature, and from its Greennels becomes of a very delightful beautiful Red, and from its Softness, of a compacted Firmness, that is hard and durable. It springs up naturally, refembling a Plant or Shrub, adorn'd with many pretty Branches." The red is best, and of that the reddest, the palest being of less Use; but in Medicines a small Sprig Sort is taken for Cheap-The white is next in Goodness; the best of which is that which is pure, white, and clear, almost transparent, free from Dross, and something resembling white Wax. The black is not valued, yet the greatest Rarity of them all. It is observable, that red Coral, insused two or three Days in white Wax, melted upon hot Embers, and pour'd an Inch over it, lofes its Colour, and the Wax becomes yellow. Fresh red Coral put into the fame Wax, in the same Manner, becomes brown; and fresh red Coral put in like Manner into the same Wax the third Time, makes the Wax become red; for the Wax diffolves, and draws forth Part of the red fulphureous Particles lying on the Surface of the Coral.

Coral is prepar'd by levigating it on a Marble into a fine subtile Powder. It is cooling, drving, and aftringent, strengthens the Heart, Stomach and Liver, absorbs Acidities, purifies the Blood, refifts the Plague, and the Force of putrid and malignant Fevers; stops Fluxes of the Belly, and is profitable in the Gonorrhoea and Whites. It is faid to prevent the Epilepsy in Children, being first given in the Mother's Milk as soon as the Child is born. It stops bleeding, helps in Difficulty of Urine, and is prevalent against the Stone in the Bladder, and the bloody Flux. Dose from a Scruple to a Dram, in any proper Liquor. Outwardly it helps Ulcers, filling them with Flesh, and cleatrizing; in Collyries it helps the Eye-Sight, stops the Weeping of the Eyes, and

abforbs the watry sharp Humours.

Of this there is a Tincture made with Spirit of Vinegar, or Juice of Leinons, and from thence a Syrup, Magistery, and Salt prepar'd; but they are all forced unnatural Preparations. And crude Coral, reduced to such an impalpable Powder, as aforesaid, is far superior to all the other Preparations of it.

Carallina, call'd Coralline, or hard Sea-Moss, s of feveral Kinds. That which we now use in Physick, is call'd Muscus Marinus, five Carallina Officinarum, Sca-Mols, or the Coralline of the Shops. This is a little bushy Plant, which grows about three Fingers high, bearing a great many little Stalks, that are as fine and slender as a Hair, stony, and furnish'd with very little Leaves, of an ash-colour'd green, and a fishy Smell, the Taste being salt and disagreeable, cracking or crackling betwirt the Teeth like small Stones, and being subject easily to be bruised betwixt the Fingers. Chuse such as is whole, clear, of a whitish green Colour, and very strong Smell. It yields a good deal of Salt and Oil. It is proper to kill Worms, suppress Vapours, provoke Womens Courses, and stop Fluxes of the Belly. Dose, in fine Powder, from half a Dram to a Dram.

The Coralloides is a Plant that is but petrified in Part, having the Appearance of a little Shrub, but without Leaves. There are feveral Sorts of it, which vary in Size, Shape, Hardness, and Colour. They are all usually astringent as to Passage by Stool, and aperitive by Urine, but of no great Vogue in Physick. It is call'd Coralloides, as being something like Coral in Figure and Hardness.

Other Authors describe the Coralline to be a hard stony Moss, growing annually on Rocks, in or near the Sea, rising either from the Stones thereof, or from the Shells of Scallops, Oysters, and the like. It grows scarce a Hand high, spreading forth several small Branches, like a green Herb, with many small short Leaves like Hairs. It is gather'd on all the Western Coasts, and the Northern Parts of Europe, and is found growing in little white Threads, sasten'd to the Rock or Shell it springs from, as Moss to a Tree; and if good, is very white, in little Strings, like the Unravelling of coarse Linnen Cloth, some an Inch long, some shorter, some longer, of an unpleasant Taste and Smell.

[The red Coral is the Corallium rubrum majus. Park. 1299. Gorallium verum. Boet. 318. the White the Corallium album majus. Park. 1300. Corallium album. Tourn. Inst. 527. and the Black the Corallium nigrum. C. B. Pin. 366. Keratophyllum arborum nigrum. Boerh. Ind. Alt. 6. Lithephyton nigrum arboreum. Tourn.

Inst. 574. The Red is taken out of the Mediterraneon, the White mostly out of the Sicilian, and the Black out of the American Scas; the Red is used in Medicine very much; but all its Preparations, except that of lowigating it into an impalpable Powder, are now entirely out of Use.]

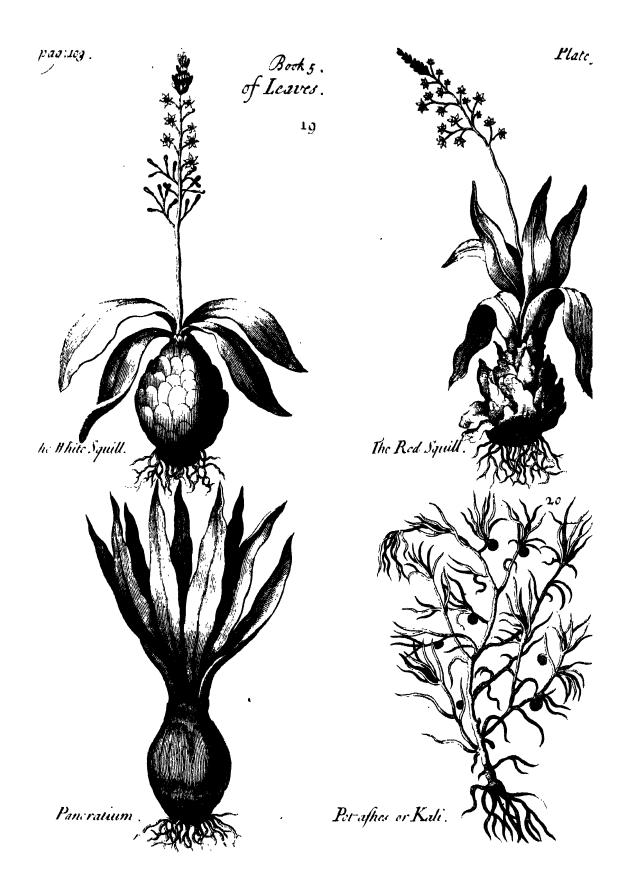
#### 18. Of Spunges.

SPunges are a Kind of Fungus, or Sea Mushrome, which are found Pomet. sticking to the Rocks in the Sea. I shall not detain the Reader to give an Account of what a Multitude of Authors have faid concerning Spunges; some saying that they are Male and Female, others that they are neither Plants nor Animals, but both, that is Zoophytes, which partake of the animal Kind, and that of Plants too. There are two Sorts of Spunges fold, namely, the fine, which are those the Antients call'd the Male; and the coarse which are the Female. The greateft Part of the Spunges that are fold comes from the Mediterranean, and there is a certain Island of Asia, that furnishes us with a very large Quantity of Spunges. This Isle is call'd Icarus, or Nicarus, where the young Men are not allow'd to marry, 'till they shew that they can gather Spunges from the Bottom of the Sea; and for this Reafon, when any one would marry his Daughter, a Number of young Fellows are stripp'd and jump into the Sea; and he that can stay longest in the Water, and gather the most Spunges, marries the Maid. The People of this Island pay a Tribute to the Grand Signior in Spunges.

The finer the Spunges are, the more they are efteem'd, and those are reckon'd best that are fairest, clearest and lightest, whereof the Holes are small, and the least full of Stones, that may be; as to the coarse Sort, the nearer they approach to the fine, the more they are valued.

The Use of Spunges is so well known, it would be unnecessary to give any Description thereof; after they are prepar'd, by cutting into sizeable Pieces, and put into melted, white Wax, and afterwards pressed, they are sold to Surgeons, and other People, by the Name of prepar'd Spunges. They are used to dilate the Orifices of Wounds: They are likewise calcin'd to make a Powder for the Teeth: The large or coarse Spunges have a Sort of little Pebbles, and other extraneous Bodies in them; to which, when reduced to Powder by Calcination, they assign a Property of curing the Gravel: Some Authors call these Stones by the Name of Cystheslithes, and affirm that such of 'em as are to be found in Shape of an Almond,

being



being pounded and mix'd in this proper Vehicle,

are useful to destroy Womes in Children.

The Spuring is a Kind of Mushroom Lemery. which grows to the Rocks in the Sea. of which there are two Kinds, [as Pomet has described them admady.] But though it is taken from the Sea, Authors have not yet determin'd in what Class to place it; some thinking it to be neither Vegetable, Mineral, nor Animal; others, that it participates of them all: Some again lace it between Animals and Vegetables, and think it partakes of both of them, for that it has an active Quality to dilate itself, and shrink up together, when in the Sea, and therefore they will have it to be a Plant Animal; because in its Nature it comes near both to that of an Animal and allowed that of a Plant.

The mast Part of Spunges that we use are brought from Ana, Aleps, and other Places in the Leuent. Inose which are fine, smooth, fost, and not too full of large Holes in them, are faid to grow in the Archipelage. Those which are large, fine, close, and lively colour'd, whether white or yellow, are accounted the best. The worst Sort are of a dirty Colour, rugged on the Surface and hard, with small gritty Stones fometimes in them. The Spunge is of an alkahous Nature, and is good against Pains of the Stomach, Gripings in the Bowels, and the Cholick; and is suppos'd to be a Specifick against the Stone and Gravel in the Kidneys or Bladder, or any Obstructions in the Urinary Passages. chief Use of it is in a Powder calcined.

The Spunge-Stone is found in those Places where Spunges are found, and is made of the Matter of Spunges petrified or harden'd. Schroder faith, that it also grows in Spunges, and is a brittle Stone, white or grey. It is attenuating without much Heat, and is good to break the Stone in the Kidneys and Bladder; and to discuss Tumours of the King's-Evil, being drunk every Morning in Urine, or in Wine, with Sal Gem and Turtar. The levigated Powder shorbs Acids, destroys the Matter breed ng the Stone and Gout, cures Heartburnings, and violent Pains in the Stomach.

The Spunge used in Medicine is the Spongia Globofa, C. B. Pin. 368. Spongia marina alba, Gev. 1383. Spongia marina veficalis, Park. 1303. It is found growing to Rocks, Shells, and other Substances, in the Sca.

The Spunge Stone is the Lapis Spongiae, Boet. Lapides in Spongiis, Mathiol. 1390. Spongit i, Aldrey, Med. Metall. 671. It is a porous, brittle Stone, of a pale greyish Colour, found in and about the lirger Pieces of Spunge, but never used now in Medicine.] 19. Of Squills.

SQUILLS are Sea Onions, which are brought from Statin, &c. where Pomer. they grow plentifully, aspecially on the Sea Shore; great Quantities also come from Normandy, especially about Rossen. They are of different Size and Colombia that the feature of the state of t ferent Sizes and Colemns but those we commonly have are the red Spails, which the Antients call'd the Female. The white were known by the Name of the Male Squill; but we meet with very few of them. These Onions bear broad, large, long, green Leaves, and Flowers, like Stars, of a fine white Colour.

Chuse such Roots, of Bulbs, as are found, heavy, fresh, and full of Juice, and beware of those that are decay'd towards the Head, to which they are subject. They are made Use of in the Shops for making Vinesar and Oxymel of Squills, and Traches for Tracket, and likewise in some Ointments and Emplaiders, Several Persons have assured one, that the squills which we have from Narmondy, are the state the Botaniss call Pancratium. cratium.

The small and meleon'd, especially the Heart, to be Posson; for which Reason they fair them in two, throw a wall, the dry Leaves, and the Heart; and the military fair brewixt both, they expose to the Air to dry land soing thus prepar'd, to make Vincthey make Use of it, a special, to make Vincgar, Honey, Wine, &

Scilla, or the Squill, is a kind of nithogalum, or a Plant, whereof Lemery. Ornithogalum, or 2 Plant, there are two Sorts. The first is the Scilla major, or Scilla ruisa magna rulgaria, the great, common, red Spaill, call'd by Tournefort, Ornitheration marking, sa, Scilla radice rubra, the Son Onione ob red cooted Squill; and by Parkinga, the strue marking It bears Leaves of above a Foot long, almost as broad as a Man a Hand, stelling, very green, sull of a bitter sulcous Juice a Frain the Middle rifes an upright state, of about a Root and a Half high, bearing on the Top, Howers compos'd of fix white Leaves, that are form'd round; which, when gone, are fueceded by a Sort of roundish Fruit, rais'd with three Corners, and divided within into three Partitions, which are fill'd with black Seed. The Root is an Onion or Bulb as big as a Child's Head, compea'd of thick Coats or Spheres that are red, juicy, viscous, and encompassing one another having at the Bottom several thick Fibres.

The fecond Soit is call'd Scilla mascula, the Male Squill, or Scilla miner, for Scilla vadice alba, the leffer Squill, or the write the white Root. It varies from the former, in that the Roots and Leaves are not so large; besides, this is white, and less common. Both Sorts grow in fandy Places, near the Sea, in Spain, Portugal, Sicily, and Normandy. We have them brought to us of all Sizes. They contain a great deal of effential Salt, fome Oil and Flegm, and a little Earth.

They are hot and dry, sharp, bitter, attenuating, inciding, absterging, discussing, alexipharmick and diuretick; powerfully cleanfe the Stomach, open Obstructions of the Liver, Spleen, Gall, Mcsentry; provoke Urine and the Terms, carry off flimy tartarous Matter from the Lungs; for which Reason they are accounted good against Colds, Coughs, Wheezings, Hoarfeness, Difficulty of Breathing, and are fingular against the Scurvy, Gout, and Rheumatism. The Root is prepar'd by rolling it in Dough, or putting it in Pye-crust, and baking it in an Oven, then taking it out and drying it. Being thus prepar'd, it is fit to make Vinegar of Squills, by infusing it in Vinegar. Dose from one to four Spoonfuls: Or Wine of Squills, by infuling it in Wine; which is emetick, and good against Asthma's, Phthisicks, Falling-Sickness, &c. given from an Ounce to two, or more. There are several other Preparations of the Root to be met with in every Difpenfatory, especially Quercetan's, Swelfer's, the Augustan and London Dispensatories.

[The Squills generally used are red, which are the Roots of the Scilla vulgaris radice rubra, C. B. Pin. 73. Scilla rubra seve Paneratium verum, Park. Parad. 133. It grows on the Sca

Shores, and flowers in September.

The White, which is not fo common, but fometimes brought among the other, and used indifferently with it, is the Root of the Scilla Hifranica vulgaris, Ger. Em. 171. Scilla magna alba, J. B. 2. 618.

A few Grains of Cinnamon in Powder takes off the emetick Quality of this Root, and makes it a powerful Diuretick, and an excellent Medicine in

Dropfies.

#### 2 O. Of Pot Ashes, Kelp, or Kali.

THIS is a grey Salt, which we bring from Alicant and Garthagena in Pomet. Spain, in Loaves or Cakes of different Sizes. It is made from a Plant that grows along the Sea Coast, which the Botanists call Kali, and we Salt-wort, Soap-wort, Glass-weed, Kelp, and inany other Names. This Plant bears a Stalk a Foot and a Half high, or thereabouts, furnish'd with small narrow Leaves. They sow this Herb, and when it is come to a due Height, they cut and manage it like Hay.

When it is dry'd, the Spaniards make large

Holes or Pits in the Ground, in the Nature of Lime Kilns, into which they throw a Bundle of the dry'd Herb, to which they put Fire; and when it is well lighted, they throw in other Bundles, 'till they fill it full of the dried Herb; when they have fill'd it, they stop it up, and leave it all together for some Time, that it may not only be reduced the better to Ashes, but likewise incorporate, and be capable to form into a Stone or Cake, in which Form it is now brought to Market; when they have open'd the Pit, they find the faid Herb burnt into a hard Stone, which they are oblig'd to break and raise up just as they do

Stone out of the Quarry.

We fell at Paris four Sorts of Pot-Ashes; the first and most valuable of which are those of Alicant, which, when they are right, ought to be dry and clean, of a bluish grey without and within, having little Holes made like a Partridge's Eye, and when spit upon and held to the Nose, have no offensive Smell. And beware the Stones be not enclosed with a greenish Crust, or full of Pebbles; for the first will stain and spot and entirely spoil Linen, and the second, by encreasing the Weight, will enhance the Price, besides spotting the Linen, according to the Nature of the Stones that are found within. Likewise take heed that the Bales be not open'd, and the Commodity that was good exchanged for that which is naught, and chuse such as is in small Pieces. This is very much used by the Glass-makers, to make the best Glass, and the Soap-boilers likewise use it considerably, drawing its Salt from it, which they use in the making of white and marbled Soap; but the greatest Part of that which comes from Spain is confum'd at Paris and the neighbouring Villages by the Scourers or Whiteners, who use it to whiten their Linen.

They make from this Salt, which the French call Soude, by the Affiftance of common Water, a white Salt, call'd Salt of Kali, or Alkali, which is as much as to fay, Soude Salt, because Al is an Arabian Word that fignifies Salt, and Kali, Soude. It is to be observ'd, that this Salt only is properly called Alkali Salt; though the fixed Salts of other Plants may be also called Alkali Salts, with the Addition of the Name of the Plant they are made from, as the Alkali Salt of Wormwood. There are those who pretend that the true Alkali Salt, is the Glass Salt, but they deceive themselves, as they may be satisfied in the Chapter concerning the Glass Salt.

The fecond Sort is that of Carthagena, which only differs from that of Alicant in not being fo good, neither is it of the bluish Cast, but more crusted, and the Bales are much larger. The third Sort of Pot-Ashes is that named the Bourde Kind,

which

which ought to be enfirely rejected, as being so bad, that it is fit for nothing but to deceive those that buy it. This is usually most, of a blackish green Colour and very sectid. The fourth Sort is that of Cherbourg, which is made of an Herb found along the Sea-Coasts of Normandy. This is likewise a very bad Kind, being extremely humid, of the same Colour and Smell with the last Sort, and fill'd with Stones. These two Sorts are good for nothing but to impose upon the unwary Buyer, and chest the poor Whiteners.

### 21. Of Sandiver, or Glass Salt.

THE Glass Salt, which the Workmen cast Sandiver, or the Scum of Glass, is a fat Dross that floats upon the Glass Metal when it is in Fusion. And this Froth comes from nothing but the Pot-Ashes, which they use in making their Glass; for the Flints that they make use of will afford no such Scum.

Chuse such Sandiver as is in very large Pieces, white without and within, heavy, and the likest Marble that can be; and throw away such as is fat, blackish, and moist. It is very much used by those who make white Earthen Ware, because it affists the Sand in its Vitrisication. It is very remarkable that this should be of no Use to the Glass-makers; and the Earthen Ware Workers would no know what to do without it.

It is to be had in all Places wherever Glass is made, it being a fort of superabundant Salt, thrown forth from the Metal while melting in the Furnace, and by the Glass-Men taken off, as the Recrement of their Materials, with a Ladle. It is a very white Salt, and inclining nearest to a nitrous Tafte, exfily diffolving in the Air, or any moist Place; for as Glass is made of Sand and Pot-Ashes, the latter being put in to make the former melt into Metal; so this Sandiver is the Superabundancy of that Salt, more than is requilite to go into the Body of the Glass, which being in Fusion, sends up to the Top whatever is more than requisite for that Purpose. This must be scumm'd off, or else 'twill make the Glass unfit for working, very brittle, and no ways pliable.

The best Metal will yield, in a Pot of two hundred Weight, a quarter or half a hundred of Sandiver. The weaker the Salt or Ashes are, the greater is the Quantity of Sandiver: They yield some four or five Parts more than others do. When the Ashes are bad, they are forced to fill the Pot sour or sive Times with more fresh Ashes, by reason of the Quantity of Sandiver that is in them, before the Pot will be fill'd with Metal. They dare not cast in any cold Water to hinder

the Boiling; for if they flouid, the Furnace and the Pots would be blown up together.

This Sandiver ferres to make Metals run; and a little thereof put into Antimony and Salt-Petre, for making Greens Metallerum, encreafeth the Quantity of the Greens, and it will therewith fe-parate the better from the Storia.

Tis fold in Prance, and there used to powder their Meat, and also to est instead of common Salt. Dissolv'd in Water, and pour'd upon Garden Walks, it destroys both Weeds and Vermin. The more nitrous and fossile the Salts are, the more Unctuosity they have, and the more they run into Sandiser', to which Nitre comes somewhat near in Colour, Taste and Fatness.

It is faid wonderfully to dry and heal Scales and Manginess, the diseased Part being bathed with Water, in which it is dissolved. Parkinson says that Sandiver works much the same Effect with the Ashes of Kali, or Pot-Ashes; and is used often, being ground fine, either to be blown into Horses Eyes, or, being dissolved, squirted into them with a Syringe, to take away any Skin, Film, Cloud, or Pearl, growing on the Sight. It is also used to dry up running Sores and Scales, Tetters, Ring-Worms, and such like Blomishes of the Skin.

22. Of Crystal-Glass, and many other Sorts, with the various Ways of Colouring them, &c. from Pomet, Lemery, and several other Authors.

GLASS is a Composition, or Mixture of Ashes, or some Alkalisate Salt, with Sand, Crystal, Flints, Pebbles, or other Stones, melted together into one Body, by the Force of Fire. The first Ingredient going into the Composition of Glass, is Pot-Ashes, called by the French, Soude, & Roquette; and by the Italians, Polvertna Barillia, &c. There is little or no Difference in the Goodness of these Pot-Ashes, but as to the several Places they are brought from; for the best Ashes make the most Salt, and the clearest and finest Glass. Pot-Ashes made of Kali, which comes from the Levant, make a far whiter Salt than the Barillia, and by Consequence a more perfect and beautiful Crystal.

Some use Brass Boilers in making this Salt, which may do, where green or blue Colours are to be made; for this strong Lye will fret off some Part of the Metal or Verdegrease, which will damage a Crystalline Glass: In this Case therefore, the better Way is to have the Copper, or Vessel doubly lin'd with Tin, because that emits no Tincure: Also, in making the aforesaid Salt, you

must mix a Quantity, more or less, of Tartar calcin'd to Whiteness, with your Pot-Ashes; because it makes not only more, and a whiter Salt, and a more beautiful Crystal, but likewise opens the Body of the Pot-Ashes, causes a speedier Dissolution, and a better Extraction of the Salt, just as Alum or Vitriol opens the Body of Salt-Petre, in making Aqua Fortis, or Spirit of Nitre, which otherwise, without such Addition, would not rise so easily.

The second Ingredient that enters into the Composition of Glass, is Glass Stone, or Sand; and this is what gives Body, Consistency and Firmness to Glass, as Iron gives to English Vitriol, and Copper to Hungarian, Dentaics, and Roman Vitriol, which otherwise would run into Water, in moist Places and Seasons. Glass Stones are properly all, or most Sorts of Stones, which will strike Fire with a Steel; these are apt to vitrify, and easy to make Glass and Crystal withal; those which will not strike Fire with a Steel will never vitrify, whereby you may partly know the Stones which will, and which will not, be transmuted into a glassy Body.

The first Place is given those Stones which are white, but not transparent, of which Kind is Tarso, which is a Sort of hard White Marble, found in Tuscamy, at Pisa, Seraveza, Carara, the River Arnus, above and below Plorence, and in many other Places in the World; that is the best which is without blackish or yellowish Veins in it like Rust. The next to a Kind of Pebble, in Appearance like White Marble, something transparent, and hard as a Flint, which being struck, gives Fire, and turns not into Lime: This, when first put into the Fire, becomes white, and loses its Transparency, and afterwards it turns to Glass.

Where fit Stones cannot be had, Sand is made Use of; and as some think, and affirm with good Reason, was the first Material made use of in making Glass; it must be small, white, and very clean, and well washed, before it be used, which is all the Preparation of it. This is usually met withal upon the Mouths and Banks of Rivers, and in many Places upon the Sea Shore, and sometimes upon Inland Sand-Hills. White Crystal Glass requires a fine, clear, transparent Sand, but green Glasses a more coarse and brown.

The last Ingredient is Manganese, or Magnesia, so call'd from its Likeness in Colour, Weight and Substance to the Load-Stone, and it is accounted one of the Kinds thereof; it is found in Germany, Italy, Piedmont, &c. and of late Years, in England, among the Lead Mines; and wherever the Miners find it, they certainly conclude that Lead-Our lies under it. The Potters spend great Quan-

tities of it, this being the only Material wherewith they colour their Black, as they do Blue with Zaffer. That is best which has no glittering Sparkles in it, and is of a blackish Colour; but being powder'd, of a dark Lead Colour: 'Tis a Stone very hard and ponderous, and the deeper its Colour is, the deeper it colours the Metal in the Furnace; this is to be put into the Melting-Pot together with the Fritt. This is the most univerfal Material used in making of Glass; and is that which alone purges off the greenish, bluish Colour which is in all Glass, and makes it not only clear and diaphanous, but also makes it dark. black, red, and purple, according to the Proportion which is added. The Manganese of Piedmont, and that of England, which are the best of all others, leave the Giass white, and take away from it the Greenness and Blueness; the Reason of which Operation feems to be a Change in the Figure, and more minute Parts of the Metal; for the Fire making the Manganese run, mixes it with the smallest Atoms of the Metal throughout. which by boiling and various Agitations and Revolutions of them, form those Reflexions of Light. which we call white, clear, and diaphanous.

As much Manganuse prepar'd must be used in common white Glass, as in that made of Flint, or Crystal; the Quantity of the Manganese is uncertain, and is only known by Practice and long Trial, and therefore cannot be positively determin'd, either by Weight or Measure, but must be wholly lest to the Eye, Judgment, Trial and Experience of the Artist. In putting of it in, you are to try whether it has enough of Manganese, or no; if it be greenish, give it more Manganese, with Discretion, and put it in by little and little; for otherwise, intread of a clear, white, diaphanous Colour, which in just Proportion it always gives, if too much be added it will make a dusky Purple, or Black, and take away the Splendor of the Metal, which otherwise would be clear and fhining; for it is the Property of Manganese, to take away the Foulness and Greafiness which Crystal has, and to make it resplendent, white and clear.

A fourth Ingredient also has of late been added to the Composition of Glass, which is Salt of Tartar: If the Proportion of twelve Pound of pure Salt of Tartar be added to a hundred Weight of Fritt, it makes it, without any Comparison, much fairer and more pliable to work than ordinary. This Salt of Tartar must be very pure, and put in when the Fritt is made, mix'd with the Glass Stone, Tarso or Sand, together with the Pulverine, Rechette, or Pot-Albes sisted and made fine, whereof the Fritt is to be made. Hitherto of the Materials; but to descend to the

Instru-

Instruments, and the Manner of working in the Glass, would be beyond the Scope and Intention of this Performance, therefore I shall proceed to shew how to turn the Materials into Frist, of which Glass is made and fashion'd.

Fritt is nothing else but a Calcination of those Materials which make Glass; and the they may be melted, and make Glass without Calcination. vet this would require Length of Time, and occalion much Weariness, and therefore this Calcination was invented to calcine the Print in the Calcar; which when it is calcin'd, and the Proportion of the Materials is adjusted to the Goodness of the Pot-After, it presently melts in the Pot, and admirably clarifies. Fritt feems to be deriv'd from frittare, to fry; fince, indeed, it is nothing else but Salt or Ashes mix'd with Sand. or Stone, in fine Powder, and so fry'd or bak'd together; the English call the whole Quantity, bak'd at a Time in the Calcar, a Batch: Then it runs into little Lumps like Fritters, call'd often in Italian, Fritelle, or little Fritts.

It is of three Sorts; first, Green-Glass Fritt, made of common Ashes, without any Preparation of them, other than beating them to Powder, and a hard Sand fetch'd from Woolwich in Kent. Secondly, Ordinary White Fritt, made of Ashes of Polverine, or Barrillia, without extracting the Salt from them, which makes common White Glass. Thirdly, Gryftal Fritt, made with Polverine, or Pot-Afbes, and Salt of Tartar, with white Crystalline Sand, Crystal, Pebbles or Flints. The Materials must be finely powder'd, wash'd, searsed, and then incorporated well together, which put into the Calcar, will exactly mix in the smallest Particles, and minutest Atoms; for otherwise the Salt and Sand will, in the Melting-Pot, easily separate one from another, which they are apt enough to do were they not stirr'd with the Rake.

To make the fecond Kind, or common white Sort of Fritt for the White Glass; learse the pure Pot-Albes, and what will not go thorough, beat and fearle again; beat also finely and fearle your Tarso, Crystal, &c. Take of the Ashes, &c. one hundred Weight, of the Stone from eighty to ninety; pure white Crystalline Sand. wash'd and freed from all its Filth, six Pounds; mix all together, then put them into the Calcar. or calcining Furnace, when it is hot; at first mix and spread them well in the Calcar, with a Rake, that they may be well calcin'd, and continue this 'till they begin to run into Lumps; the Fritt will be perfectly wrought in five or fix Hours, being furr'd all the Time, and a sufficient Fire continued; when you wou'd fee whether it be enough or no, take a little of it out; if it be wlute, yellowish and light, 'tis enough': The calcining it more than five or fix Hours is not amis; for by how much the more it is calcin'd, by so much the better it is, and the sooner it melts in the Pot; and by standing a little longer in the Calcar, it loses the Yellowness and Foulness, which it wou'd communicate to the Glass, and becomes more clear and purified.

It is here to be noted, that in Italy, and other Places, when they take the Fritt out of the Calcar, they throw upon it a good Quantity of cold Water, while it is hot, then set it in a Cellar, from whence a Lye will drop, which may be Arengthen'd with calcin'd Tartar to be kept for Use, with which they now and then water the Fritt; which being heap'd up together in a moist Place, the Space of two or three Months, or more, grows in a Mass, like a Stone, and is to be broken with Mattocks: This, when it is put into the Pot, foon melts and makes Glass as white as Crystal; for this Lye is thought to leave, upon the Fritt, its Salt which produceth this Whiteness, and makes it easier to melt, and more Crystalline, as aforesaid.

To make Crystal Fritt, commonly call'd Bollite: Take of the best clear Pebbles, Crystal. Tarso, or Flint, ground small in a Mill, and fearfed as fine as Flower, two hundred Pounds; of pure Salt of Polverine, or Pot-Ashes, sifted also, one hundred and thirty Pounds; put them into the Calcar when it is well heated a for should the Calcar be cold, the Fritt would never be made: At first, for an Hour, make a temperate Fire, and always mix the Fritt with the Rake, that it may be well incorporated and calcin'd; then increase the Fire, always mixing the Fritt well with the Rake; for it is of great Importance, which you must continually do for five Hours, continuing a strong Fire; then take the Fritt out of the Cultar, being perfected, and put it into a dry Place on a Floor, and cover it well with a Cloth, that no Filth or Dust may fall upon it; and you must take care of this, if you would have good Crystal. The Fritt, thus made, will be white as the purest Snow. If the Tarse be lean, you may add to the Quantity ten Pounds. or more, of the aforefaid Salt; but this is to be done after making Trial: You ought always to make Trial of the first Fritt, by putting it into a Crucible, and fetting it in the Furnace; if it grow clear suddenly, you will know whether it be well prepar'd or not, whether it be soft or hard, and whether any more Salt is to be added to it, or to be diminish'd. This Crystal Fritt must be kept in a dry Place, where no Moisture is; for by Moisture it will suffer Damage, grow moist, and the Salt of it will run to Water,

P 2

and the other Ingredient remain alone, which of itself will never vitrify. This is not to be waser'd as the former, but may lie three or four Months; after which it will be much better to

put into Pots, and sooner grows clear.

Green Glass Fritt, of which we have yet said nothing, is a Composition made of groffer Materials; to wit, of common Ashes, without any Preparation of them, or elfe of Gobbets ground to a fine Powder, and a hard Sand; this requires ten or twelve Hours baking, more or less, according to the Goodness and Softness, or Hardmess of the Sand and Ashes. When the Fritt is put into the Melting-Pots, to be made into Glass, in the fecond, or working Furnace, whether it be Green Glass, White Glass, or Crystal Fritt, it is to be melted and kept so long in Fusion 'till it is purified and refin'd, before it is wraught: It purifies itself by sending up a Scum to the Top of it, which is a super-abundant Salt, cast forth from the Metal, and by the Workmen is call'd Sundiver, and is to be taken off with the Scumming-Ladle, as the Recrements of the Materials. Sandiver damages the Metal, and makes the Glass obscure and cloudy, being always very foul, and therefore is continually to be fourmi'd off, and taken away, as long as any of it rifes.

To reduce Glass again into its first Principles; take Glass in Powder, what Quantity you please, Pot-Ashes, as much; mix or melt them in a strong Fire, which immediately put into warm Water, so the Glass will dissolve, the Salt will melt and mix with the Water, and the Sand, &c. will fall to the Bottom; by which it appears that the Fusion of Glass is not the last Fusion, or beyond any Reduction. Helmont faith, if you melt Glass in fine Powder, with good Store of Sandiver, and fet them in a moist Place, all the Glass will soon be resolv'd into Water, whereunto if you add as much Aqua Regis as will suffice to saturate the Sandiver, you shall find the Sand presently settle to the Bottom, in the same Weight in which it was first put in; for the Salt in the Glass is imbib'd, and taken up by the Sandiver and Agua Regis, and so the component Parts,

analyz'd into their former Principles.

As to the Way of making Prince Rupert's Glass Drops: They are made of green Glass, well refin'd, for otherwise they will not succeed, but crack and break prefently after they are dropp'd into Water: The best Way of making them, is to take up some of the Metal out of the Pot, upon the End of an Iron Rod, and immediately let it drop into cold Water, and lie there 'till it is cold; where observe, first, If the Metal he too bot when it drops into the Water, the

Drop will certainly frost and crackle all over, and fall into Pieces in the Water. 2dly, Every one of them that cracks not in the Water, but lies in it 'till it is quite cold, is fure to be good. adly. That the most expert Artists know not the just Measure of Heat required, and therefore cannot promise before-hand that the next shall be good, for many of them miscatry in the making, and oftentimes two or three, or more, prove ill for one that hits. 4thly, If one of them be taken out of the Water whilst it is red hot, the fmall Part of the Tail or Thread it hangs by, fo much of it as has been in the Water, will, upon breaking, fall into Dust, but not the Body of the Drop, tho' its Cavities are full as large. 5thly, If one of them be cooled in the Air, or on the Ground, hanging by the Thread, it becomes, in all Respects, like other Glass. 6thly, The Outfide ( the Glass Drops that are cool'd in Water, as close and smooth, like other Glass, but within it is spungy, and full of Cavities or little Bubbles. 7thly, The Figure of it is roundish, or eval at the Bottom, not much unlike a Pear or Pearl, vreath'd from the Beginning of the Neck as it grows smaller, and terming hig in a long Neck, for the most Part bended c rocked 8thly, If a Glass Drop be let sall in scanling hot Water. 11 will crack and break in the Water, either before the red Heat is over, or foon after. 9thly, If it be taken out of the Water before it be cold, it will certainly break. 10thly, If they be dropp'd into Vinegar, or Spirit of Wine, or Water in which Nitre or Sal Armoniac have been dissolv'd, or Milk, they never mise to frost, crack, and break to Pieces. 11thly, If dropp'd in Oil-Olive, they do not so frequently miscarry as in cold Water, nor have so large Blebs or Bubbles in them, but some Part of the Neck, and small Threads break like common Glass; and if the Neck be broken. ar the Body, and the Body held close in the Hand, it breaks not into small Parts, nor with so smart a Force and Noise, as those made in cold Water. 12thly, Is you break off the Tip of the Thread, or Neck, of one of those made in Water, the whole will sly immediately into very minute Parts, which will eafily crumble into coarse Dust. 23thly, A Blow with a small Hammer, or other hard Instrument, only upon the Body of one of those made in Water, will not break it. 14thly, One of them broke in the Hand, under the Water, strikes the Hand more fmartly, and with a brifker Noise than in the Air; but fasten'd in a Ball of Cement, half an Inch in Thickness, upon the Breaking off the Thread, or Tip of it, it breaks the Ball in Pieces like a Granado. Laftly, Some of them being

ground

ground upon a Tile, or other Stone, break when the Bottom is a little flatted, and others not 'till

half is rubb'd, or ground off.

To prepare white Glass, or Crystal Glass, take Fritt of ordinary Pot-Ashes, to make a fair, white, common Glass; but Fritt of the best; whitest, and hardest Pot-Ashes, in great Lumps, makes the Glass, which is call'd Crystalline Glass, not Crystal itself. You must put as much Manganese in one Sort as to another; cast the white and Crystal-like Glass into Water, that you may have them clear in Persection. may make them without this casting into Water; yet it is necessary, if you would have them fairer than ordinary; and may be repeated, if you would have them yet more resplendent, and then you may work them into what Vessel you please. To have the Glass yet whiter, calcine it, that it may purify well, and have but few Bliften , and also add to a hundred Pounds of the Fritt ! Pounds of pure Salt of Tartar, which some reput in when the Fritt is made, and so mix' yer!. Sand Por-Ashes sisted, and then be made it is thereof, as hefcie, and fo will the Metal he fairer beyond Com, a home

#### Continuering Glafs.

The calcining Copper or Brass variously for various Colours is done first by Feretto of Spain, with thin Copper-Plates laid in Bits upon Sulphui, Stratum Super Stratum, cover'd, luted, and calcin'd for two Hours, then beaten small and scars'd: Or, 2dly, It is prepar'd with Vitriol instead of Sulphur. 3dly, You may make a Calcination of Brass with Sulphur, thus: Take thin Plates in Bits, which lay upon Sulphur, Stratum super Stratum, which calcine for twenty-four Hours; then powder and fearfe it, and reverberate again for twelve Days; ...ind, fearfe, and keep it for use to colour Glass of a transparent Red, or Yellow. 4thly, Calcine Brass by stielf, by putting Bits of Brass Plates into a Crucible, and luting on the Top; this makes Glass of a Sky-Blue and Sea-Green. 5th, Calcine Scales of Brass per se, which if well done will be red. Scales of Brass thrice calcin'd, become of a ruffet Colour, and will make a Sea-Green, an Emerald, a Turchois, and a beautiful Sky-Blue, with many other Colours.

To tinge Glass of a Sea-Green; take Crystal Fritt, put it in a Pot, without any Manganese addded; melt it, and take off the Sandiver: Being well and persectly clarified, take of this Crystal twenty Pounds; Brass of the first, third, or fixth Preparation, six Ounces; Zassar prepared, one Ounce and half; mix these two Powders well,

and put to the faid Crystal at three Times. At first it makes the Metal swell very much, therefore mix the Glass with the long Squares; then let it fettle, that the Colour may be incorporated for three Hours; then mix again, with the long Squares, and take a Proof thereof. Put in rather too little than too much of the Colour; for then it may be easily heighten'd. At the End of twentyfour Hours, after it has had the due Colour, it may be wrought, mixing it well first from the Bottom of the Pot, that the Colour may be equally mix'd and spread through all the Metal, and united with it, otherwise it settles to the Bottom, and the Metal at Top becomes clear. At Morai, they take half Crystal Fritt and half Pot-Ash Fritt, and proceed as before, whence arises a fair Sea-Green, but the former is fairer.

For a Sky-Colour, take Fritt made of the best Pet-Ashes, which purify from its Sandiver; and to twenty Pounds thereof add Brass, of the fourth Preparation, six Ounces, and put it in at three Figure as aforesaid. At the End of two Hours remain the Metal and make a Proof; being well releared, seave it for twenty-four Hours, so will you have an excellent Sky-Colour, varied with

other Colours, then work it.

Another Sea-Green, yet more excellent, is thus made: Take Caput Mortuum of the Vitriol of Venus, made without Corrolives, expose it to the Air for some Days, and you draw from it, without any Artifice, a pale green Colour, which being powder'd, to fix Ounces of it, add Zasfar prepar'd, once Ounce and half; Chrystal Fritt purified, as before, twenty Pounds: Work as in the first Green, so will you have the most beautiful Colour of the three.

To make a Gold-yellow in Glass, or a Kind of Amber-Colour: Cryftal Fritt two Parts, pure Pot Ashes Fritt one Part, both made of Tarfo, which is much better than Sand; but if of natural Civital it is yet better; mix these well together, of which take twenty Pounds; of Tartar well beaten and fearfed fine, Manganese prepared, of each three Ounces; mix these Powders well together first, then, with the Fritts, put them in the Furnace, and let them stand four Days on an ordinary Fire because they rise much. When the Metal is purify'd and well colour'd, which is at the End of four Days commonly, it will be very fair and beautiful, and is then to be wrought into Vessels, &c. This Colour you may make deeper or lighter, by adding or diminishing the Powders or Fritts. If you would have it yet fairer and more beautiful, you must take all Cryfal Fritt: Moreover, another Thing is to be obferv'd; you must put the Powder at several Times into the Fritt, not into the Metal, for then it colours not.

To make a black Colour in Glass: Take Pieces of broken Glass of many Colours, grind them small, and put to them Powder made of Zaffar prepar'd, two Parts; Manganese prepar'd, one Part; this Glass, purified, will be a most admirable Black, shining like Velvet, and will serve for Tables, &c. Another brighter Black: Take Fritts of Crystal and Pot-Ashes, of each ten Pounds: Calx of Lead and Tin, of each two Pounds; mix all together, set them in a Pot in the Funnace, well heated; and when the Metal is pure, add fix Ounces of Powder made of Steel, well calcin'd; Scales of Iron, finely powder'd, of each equal Parts; let them boil twelve Hours, now and then mixing the Metal, then work it. Another Black, yet clearer, is this: Take of the best Pot-Ash Fritt twenty Pounds, Manganese prepar'd, one Pound and a Quarter, Tartar in fine Powder, fix Pounds; mix them, and put them into the Furnace leifurely; let the Metal purify, which will be at the End of four Days; mix again well, then east it into fair Water, and it will be black beyond any of the former.

To make a fair Milk-white call'd Lattime: Take Crystal Fritt, twenty Pounds; calcin'd Lead and Tin, of each three Pounds and a half; Manganese prepar'd, one Ounce; mix all together, and put them into a Pot heated, let them stand twelve Hours, that the Materials may be melted; and at the End of eight Hours you may work it. It is a fair White; and to make a Peach Colour of it, add a sufficient Quantity of Manganese prepar'd, and it will be a Peach Colour; but you must work it in Time, otherwise

it will fade again.

To made a deep Red: Take Crystal Fritt, twenty Pounds; Tin calcin'd, two Pounds; broken Pieces of white Glass, one Pound; mix these well together, put them in a Pot to run and purify them; being melted, add leifurely, one Ounce of this Mixture; Steel calcin'd and ground, Scales of Iron finely ground, of each alike; mix them well together, and in about five Hours it will be perfected: Too much of the Powder makes the Metal black and opacous, whereas it ought to be transparent; if it be too black or deep, put in of the fourth Preparation of Brass, about an Ounce, and mix them many Times, and in about three or four Repetitions it will become as red as Blood: Make several Trials, and when you find it right and good, work it speedily, otherwise it will lose its Colour and become black; you must also leave the Mouth of the Pot open, else the Colour will be lost. Let it not stand above ten Hours in the Furnace, and fuffer it not to cool, if possible. If you find the Colour fades, put in some of the Steel and Ironscale Powder aforesaid, and it will restore it again; 'tis a nice Colour, therefore speedily to be

wrought.

For a transparent Red in Glass, like Blood, take common white Glass, twenty Pounds, Glass of Lead, twelve Pounds; put them into a Pot glaz'd with white Glass; when the Glass is boil'd and refin'd, add Copper calcin'd to Redness, as much as you please; let them incorporate, mixing well the Glass, then add so much Tartar in Powder as will make the Glass Blood-red: If the Colour be too pale, add more of the calcin'd Copper and Tartar, 'till the Colour is exact. Another transparent Red: Dissolve Gold in Aqua Regis, pour Water upon it; then put this Powder of Gold in earthen Pots, to calcine in the Furnace, 'till it becomes a red Powder, which will be in about forty Days; add this Powder by little, in sufficient Quantities, to fine Crystal Glass. which has been often cast into Water, and it will

give a transparent Red, a Ruby Colour.

To make Glass of Lead: Take of the best Red Lead what Quantity you please, suppose fisteen Pounds; Chrystal Fritt, or common white Fritt twelve Pounds; mix them as well as may be, and put them into a Crucible with a strong Bottom, which put into two other Crucibles of like Strength, one within another, and put them into a Fire of Suppression. The Lead will pass through the first and second Crucible., and in the third you will find the Glass. Or thus: Take Minium fifteen Pounds; Salt of Pot-Ashes eight Pounds; Sand the fame Quantity; mix and put them into Crucibles as before, for fear of breaking; and make a Fire of Suppression, so will you have very good Glass of Lead. To work the said Glass of Lead: Before you take it upon the hollow Iron Pipe, let it be a little rais'd in the Pot, then take it out and let it cool a little, and fo work it on the Marble, being clean. At first let the Maible be well wetted with cold Water, otherwise the Glass will scale it, and be itself also discolour'd, incorporating the Scales into itself; and continually wet the Marble whilst you work this Glass, otherwise it will lose all its Fairness and Beauty; and do this as often as you take the Metal out of the Pot. This Kind of Glass is so tender and brittle, that if it be not cool'd a little in the Furnace, before it is wrought into drinking Glasses, Cups, or other Vessels, and taken a little at a Time and held on the Irons, and the Marble continually wetted, tis impossible to work

To make a Gold-yellow in Glass, of Lead: Take Crystal Fritt, calcin'd Lead, or Minium, of each axteen Pounds, mix and scarse them well; add to them Brass thrice calcin'd, fix Ounces;

Crecus

Crecus Martis made with Vinegar, forty-eight Grains; put them well mix'd into the Furnace, let them stand twelve Hours, in which Time it will be clear; mix them, and make a Proof. If it be greenish, add a little more Crocus Martis, 'till it becomes a most fair Gold Colour.

A transparent Red in Glass is made thus: Take impalpable Powder of the best Manganese, refin'd Nitre, of each equal Parts, calcine and reverberate twenty-four Hours, then wash away the Salt with fair warm Water and dry the Powder, which will be of a red Colour; add to it its equal Weight of Sal Armoniac, grind them together on a Porphyry with Spirit of Vinegar; then in a Retort, with a large Body and long Neck, sublime in Sand for twelve Hours, break the Glass, and take what is sublim'd to the Neck and Body of the Retort, and mix it with what remains at Bottom, adding as much fresh Sal Armoniac as is wanted in the Weight of the first Sublimation; grind, as before, on a Porphyry, with Spirit of Vinegar, and sublime also in the same Manner; repeat this Work so long, 'till the Manganese remains all at the Bottom, fusible.

A most excellent Blue to colour Glass: Disfolve Copper in Aqua fortis made with Nitre and Hungarian or Roman Vitriol, which sharpens the Aqua fortis, and yields some Particles of Copper to it; then precipitate it with Spelter of Zink; this is sometimes done with the Resiner's double Water impregnated with Copper; by this Means you shall have a most incomparable Blue for co-

louring Glass.

There are almost an infinite Variety of Ways to colour Glass, among which I thought these few might not be unacceptable, to give the Curious a little Insight into this Art, which has of late Years received such vast Improvement.

[The Plant, from the Ashes of which the Salt for Glass Work is commonly made, is the Kali Cochleatum majus. Park. 279. Kali majus cechleato semine. C. B. Pin. 289. But that which yields the Alicant Salt, the purest and best of all others, is the Kali Hispanicum supinum Annum sedi foliis brevibus. Act. Reg. Par. Anno 1717, Pag. 93, Fig. Pag. 98.

The several Things used in Medicine which

owe their Origin to Kali, are

1. The Pot-Asbes, or Cineres Clavellati of the Shops.

2. The Sandiver, or Axungia Vitri.

3. The Soap Lye, or Livivium, made by diffolving the Salt in Water, from which the Cauflick Stone is made.

4. Soap, which is made of this Lixivium,

and is treated of in its proper Place.

Beside the Ashes made from the Kali, there are the Ashes of the Rocket, prepar'd in the same Manner, brought from the Levant, and used in the same Manner by the Soapboilers and Glassimakers: And in Lorrain they burn the common Female Fern to Ashes in the same Manner, and make a particular Kind of Glass with them, call'd Fern Glass, which is generally very light and thin, and of a pale Sea-green.]

## The End of the Book of LEAVES.

## BOOK the Sixth.

# Of FLOWERS.

### REFACE.

LOWERS are the expanded Buds of Vegetables, of various Colours and Figures, in which are generally found their Fruits or Seeds. A Flower is composed of three Parts, the Empalement, or Cup; the Foliage; and the Heart, or Centre.

Besides the Flowers of Plants which we usually sell, I shall comprehend in this Book the Parts of Flowers, and some other Vegetable Substances, which have no regular Place under any of the other Classes of this Work, as the Spikenard, Epythymum, and the like,

#### 1. Of Schoenanth, or Camels Hay,

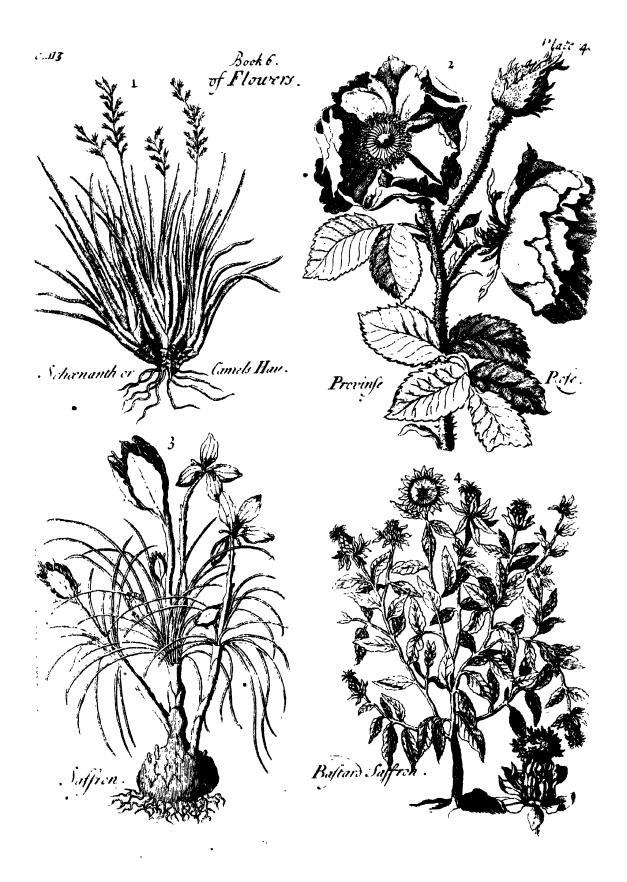
of a small Plant, or, more properly speaking, a sweet Rush that grows plentifully in Arabia Felix, and at the Foot of Mount Libanus, from whence it is brought to us by the Way of Marseilles. This Plant is about a Foot high, the Root being knotty and very little, furnish'd with small, hard, long, white Filaments, and from each Root come feveral hard Stalks, of the Size, Figure and Co-lour of a Barley Straw; there arise little tusted Flowers on the Tops of the Stalks, the Bottoms of which are of a Carnation Colour; fo that when the Rush is in Flower, it is a very fine Plant to look upon. And as this Flower is agreeable to the Eye, so it is to the Palate, having a warm, biting, aromatick Tafte.

We have brought from Marseilles the Flower and the Rush separate from one another, to wit, the Rush in little Bundles, and the Flower just in the Manner as it is gather'd; fometimes clean and neat, and other Times nafty and dirty; which is the Reason why such Apotheearies as are curious in their Drugs, clean and wipe every Flower, which is a troublesome Piece of Work. Chuse such as are the newest, and approaching nearest the scarlet Colour that you can get; tho? they are requir'd for the making of the Great Treacle.

When the Flower is scarce People use the Plant in its Place, but when the Flower can be had it ought to be used, as it has much more Virtue.

Fænum Camelorum, Juncus odoratus Scheenanthus, Scheenanth; the fragrant Lemery. Rush, or Camels Hay, is a Kind of Reed, or Grass, which grows plentifully in Arabia Felix, at the Foot of Mount Libanus, where it serves the People for Forage and Litter for their Camels. The Stalk is about a Foot high, divided into feveral hard Stems, of the Size, Figure and Colour of a Barley-Straw, being much smaller towards the Top. The Leaves are about half a Foot long, narrow, rough, pointed, of a pale green Colour. The Flowers growing on the Top are ranged in double Order, small, hairy, of a Carnation Colour, and beautiful to the Eye. The Root is small, hard, dry, knotty, adorn'd with long white Filaments. All the Plant, and particularly the Flower, is of a strong Smell and biting Taste, pungent and very aromatick, being preferr'd to all the rest for its medicinal Use; it is incisive, attenuating, detersive, resists Malignity, is an excellent Vulnerary, provokes Urine, and removes Obstructions.

[The Scheenanth is the Gramen ad Junceum accedens aromaticum, majus, Syriacum. Hist. Ox. 3. 229. Gramen ductylon aromaticum multiplici Panicula Spicis brevibus, tomento candicantibus ck they are of no confiderable Use in Phylick, they reodem pediculo binis. Pluk. Phyt. Tab. 109. Fig. 1. It is brought from the East-Indies and Arabia; many Virtues are attributed to it, but its principal



Use at present is as an Ingredient in the Venice Tientle, Mithidate, &c.

THE Roses, call a service Roses, ponet.

The Roses of a deep Red and velveted, which are brought from service a little from about cipherer brought from service a little from about cipherer brought from service that Place; that it will be allowed that the Ground these is particularly proper for the railing these kind of Roses. Service in Beauty and Goodness they turned at that come from other Parts; and that which contributes greatly to their Excellency is, that the inhibitants thereabout are perfectly skill d in the drying of them, which makes them keep considerably longer than others, and preserves both their Colour and Smell. We bring now from Province was Sorts, the larger and the smaller, the Goodness of either of which depends on their Colour, Smell, Clearness from little Leaves, Threads, See, and then Dryness.

Thole who make it their Business to deal in luge Quantities of Provins Roses must preserve them in dry Places, where no Air can enter in, and close press'd or squeez'd, and in such Manner they may maintain their Beauty a Year, or eighteen Months; but about that Time, whatever Cue is taken of them, they lose their Colour, and Worms breed in them. Some put old Iron among them, to hinder the Worms from destroy-

ing them.

I hale Provins Rofes are Flowers much efteem'd by all the World, because they are astringent and cordial, strengthen the Nerves, and other weak Pirts of the Body: They are of confiderable Use in Physick, and enter several Compositions of Value. But fince, of late Years, these Pro-7 ms Rases were dear, several Druggists and Agothecauses have contented themselves with the common red Rofes that are cultivated about Paris and other Parts, fince which Time there has not been that Confumption of these Roses as formuly: Nevertheless, those who have made Use of the other Sort have found, that they are not equal to the true Provins Rose, either in Beauty or Virtue; belides which, they will not keep for long, notwithflanding all their Pains to preferve

The true Provins Refer are so esteem'd in the Indies,' that sometimes they will sell for their Weightein Gold; beside the great Quantity we sill of these Roses, we also receive them now made into Liegid and dry Conserves, and sometimes Syraps. You must take Care in the Choice of these Things to the with honest People, for

fear they make their Conferves and Syrups, when old, of a fresh, lively red, by a sling Spirit of Vitual, or other Acids to them. The liquid Conferve is used to strengthen the Stomach, and the diy to stop Catarrine, Rheums, S.c. and also against Gripes and Diarrhaus. The Syrup has the same Virtues with the Conserves, but in a selfier Degree: There is likewise a Conserve made of the white Roses, but it is of little Value. We have from the same Place besides, another siquid Conserve, or Honey of Roses, which is made with the fresh Juice of the Province Rose and Honey boil'd together: This is what the Apotherance and the same of the province and the

caries call Honey of Roses.

It is of these Roses we make the best Rose-Water in the World; but it depends entirely on the Honesty of the Dishiller, whether he will make all of the pure Rose, or with the Addition of a great deal of Water; and most commonly it is made, as I hinted before, of the Role-Wood. The Use of this Water is so well known, that I need not waste Time to relate to you the great Consumption that is made, both by the Perfumers and the Apothecaries, and the large Quantities daily used by private Families, upon all Occasions, especially in Diseases of the Eyes, &c. Besides the Water, there is a fragrant and inflammable Spirit made of Roses, which is very proper to refresh and exhilerate the Spirits, as well as to strengthen the Stomach. A white and very iragrant Oil, or Essence, may also be drawn from Roses; but the Dearness of it is the Reason why we fell but very fmall Quantities of it. The Roses which remain in the Alembick, or Still, after Distillation, and which are found like a Cake in the Bottom, being dried in the Sun, is that which we call Refe-Cake; but a Decoction of the Buds being to much better for all Purposes than any thing that can be made from this, it is needless to say any thing faither of it; and the little Use, as well as Virtue, there can be in the Salt made from the Rose. prevents me entirely from Living any thing about

Rose, in French and English, a Rose, is a Flower known through the World; Lemery, there are two Kinds of it, one cultivated and the other wild. The Rose-Bush is likewise call'd in Latin, Rose; it is a Shrub which bears hard woody Branches, usually before with strong sharp Thomas; the Leaves are oblong, indented on their Sides, rough in touching, hanging five or seven on the same Stalk, the I lower is composed of several, large, beautiful, fragrant Leaves, supported by a Cup, or Bud, which becomes afterward, an oval Fruit, of the Figure of an Olive, whose Bark, or Covering, is a little Q. fleshy;

fleshy; it encloses, or contains, angular, hairy, whitish Seed; the Roots are long, hard and woody; this Shrub, cultivated or uncultivated, is

a Hedge Bush.

The cultivated Rose is distinguish'd into several Kinds; those which are used in Physick, are the Pale, or Carnation Roles; the Mulk, or Damalk-Rofes; the common white and red Rofes: The pale Rose, call'd in Latin, Rose pallida, feu Rosa incarnata, are fine and large, of a pleafant Red, or Flesh Colour, very sweet to the Smell, and that spread their Leaves wide; chuse fuch of these as are the most single and least surnish'd with Leaves, because the volatile Parts are less diffus'd, and their Smell and Virtue is the greater: They afford a geat deal of exalted Oil and volatile effential Salt; are purgative, attenuate, and discharge a Mucus from the Head, purify the Blood, and purge, chiefly, the bilious and ferous Humours.

The Musk Rose, call'd in Latin, Rosa Moschata & Danascena, are small single white Roses, which blow not 'till Autumn; they have a Musk Smell, very sweet and agreeable; the best and most efficacious are those that grow in the hot Countries, as Languedoc and Prevence; they yield great Plenty of exalted Oil and volatile Salt: Three or sour of these Musk Roses being bruised in a Conserve, or Insusion, purge briskly, so that sometimes they occasion Blood; those of Paris do not work so strong, but are more purgative than the pale Roses.

The common white Roses, call'd Rose sative albe, see Rose albe vulgares majores, are large, white and fragrant, a little laxative and detersive, but are not used otherwise than in Distillations: They contain a great deal of Phlegm, exalted Oil,

and but a little effential Salt.

The red Roses, call'd in Latin, Rose Rubres, seu Rose Provinciales, are of a fine deep red Colour, but of little Smell: They gather them in Bud, before ever they blow, in order to preserve both their Colour and Virtue, which are destroy'd by the Air, if they are entirely expos'd to it. Chuse those that have the highest Colour; those that grow about Provins are the finest and most valued.

The red Roses are used for Conserves, and are likewised dried in great Quantities to keep, because they are employ'd to many Purposes, being well dried, so as to preserve their deep red Colour, as well as the Smell they had when fresh. They are astringent, detersive, proper to strengthen the Stomach, stop Vomiting, Looseness, Hemorrhages, being taken inwardly: Outwardly, they are used for Contusions, Dislocations, Sprains, of the Hands or Feet, for Bruises, and to strength-

en the Nerves and Joints: They are apply'd in Fomentations, Cerates, Ointments and Plaisters. You ought to observe to gather all your Roses in the Morning before the Sun has got high, for then the essential Parts are, as it were, concenter'd by the Coolness of the Night; otherwise, when the Sun has been upon them, it exhales a considerable Part from them. The little yellow Bodies which are found in the Middle of the Rose, are call'd Anthera; these strengthen the Gums, and are used in the Teeth-Powders. The wild, or Canker-Rose, call'd Cynesbaten, I shall speak of in its proper Place.

[The Roses used with us in Medicine are,

1. The Red, the Rose rubra multiplex. C. B. Pin. 481. Rosa rubra valde plena. J. B. 2. 34. This is used in the Bud for Conserve, and dried for Tinctures, Esc.

2. The Danie, the Rosa Danascena flore pleno. Boeth. Ind. A. 2. 152. Rosa rubello flore majore multiplicate, five Pleno, incarnate vulgo. J. B. 2. 36. These are used for the Damask Rose Water, the Syrupus rosaceus solutivus, &c.

3. The White, the Rosa alba vulgaris major. C. B. Pin. 482. Rosa Candida plena. J. B. 2. 44. This is used for the Distill'd Water. And

4. The Dog Rose, or common Bryar. Rosa Sylvestris inodora seu canina. Park. 1017. Rosa canina inodora. Ger. 1087. The Fruit of this is

used for the Conserve of Heps.

The Provins Rose, so much commended here, is the Rosa maxima multiplex. C. B. Pin. 481. Rosa Provincialis sive Hollandica Damascena. Park. Parad. 413., It is common in our Gardens, but we make no Use of it. The Musk Rose is the Rosa Moschata simplici store. C. B. Pin. 482. Rosa Moschata simplici. Park. Parad. 417, which is common in warmer Countries, but never used with us: and the Rosa Pallida of the Shops is but a Variety of the common Damask Rose. The Bedeguar of the Shops is the spungy Substance frequently found on the Stalks of the Briar. And the Anthera are the yellow Chives within the Flower of the Red Rose.

## 3. Of Saffron.

THE Saffron, which the Latins call Crocus, because of its reddish Co-Pomet. lour, is the Chive, or Thread of a Flower, of a very beautiful red at one End, and yellow at the other, which is brought from several Parts.

That which bears the Saffron is a bulbous Root, almost like that of the great Shalot, except that it is a little rounder, and of a Colour something redder, from whence arise Stalks, adorn'd

adorn'd with long, green, narrow Leaves; at the End of each Stalk comes a deadish blue Flower, in the Middle of which are three little Threads,

which is what we call Saffron.

The best Saffron, and which is most valued, is that of Boiffue in the Gatinois, where it is hufbanded with great Care, being almost all the Riches of the Country. They plant the Onions, or Bulbs of Saffren, in Spring-Time, in Rows like the Vines, in the Earth: The first Year it brings nothing but the Herb, or Leaves, which remain green all the Winter long, 'till the Beginning of Summer, after which the Leaves fall The fecond Year it returns with a Flower, in the Middle of which there are three little reddish Threads, which are the Saffron; when it is ready to be gathered, which is in September and October, they gather it before the Sun rifes, and then they retire with what they have got; and after it is clean they lay it upon Hurdles, or Bake-Stones, under which is a little Fire to dry it: The next Day they return to gather such as sprung afresh fince the other was got; for it is a wonderful Thing that these Bulbs recover again in four and twenty Hours, and continue several Days to be gather'd and dry'd, 'till the Roots will yield no more.

There grow in France several other Sorts of Saffron, as that of Orange, Toulouse, Angouleme, and of Menille in Normandy; but the last is the worst of all, and none of the other three are so sine as the true Gatinois, for which Reason it is preserred before all the rest: And to have the requisite Qualities, it ought to be well dry'd, of a beautiful Colour, long and large, well tusted, of a fine red, good Smell, with the sewest yellow Threads possible, and not smelling either burnt or

musty.

Saffron is much used in Medicine, being one of the best Cordials we have. It serves for several Uses, because of its yellow Dye. The Germans, Dutch and English are such Admirers of the Gatinois Saffron, that they transport great Quantities of it every Year in Times of Peace, into their own Country. [Here our Author's Love for his Country, or Ignorance of the Goodness of English Saffron, which is preferable to any in the World, has led him into a palpable Mistake.]

As there is a great deal of Saffron-Powder fold, fo it is generally a Cheat upon honest People, that being almost only sold in Powder, which has been used beforehand by the Druggist or Apothecary, to make Tinctures, Spirits, and the like, with. We have Saffron brought from Spain that is good for little or nothing; they spoil it entirely through their Ignorance, which makes them besieve that the Saffron will not keep without it

be put in Oil. The Antients made Pastilles with Saffron, Myrrh, Roses, Starch, Gum Arabick and Wine; formerly they were brought from Syria, and used for fore Eyes, and to provoke Urine. This Paste, or Troche, was call'd Crocomagma; and by us Pastilles, or Saffron Traches; but this Remedy is little known or used at present. There may be a Salt and Extract made from Saffron, but the Dearness of them is the Reason there is but little made: The Tincture made with Spirit of Wine is used in Hysterical Cases, given in any convenient Liquor, from four to twelve, or more Drops.

#### 4. Of Bastard-Saffron.

B Astard-Saffron is a very common Plant, which grows about two Feet high, furnish'd with Leaves that are rough, pointed, longish, green and slash'd; at the End of each Branch arises a husky Head, of the Bigness of one's Thumb's End, of a white Colour: From this Head come several red and yellow Filaments, or Threads, which is what we call German Saffron, Bastard-Saffron, or Flowers of Carthamus: But as they do not trouble themselves to propagate this at Paris, we have it brought from Assacce, and both Sides the Rhine, where they cultivate it carefully. It grows also plentifully in Provence, and other Places.

This Saff.on is in great Vogue among the Feather-Sellers, and for making Spanish-red; but has no Use in Physick, except in its Seed, which the Apothecaries use, after having cleans'd it well, in the Composition of their Tablets of Diacarthamum, which it is the Basis of. Chuse such Seed as is heavy, well fed, clean, new and dry, as can be got, and see that it be not mix'd with Melon, or Gourd-Seed; to distinguish betwixt which, know that the true Carthamum is round at one End, and pointed at the other; besides that, it is never so white as the Melon-Seed.

#### 5. Of Saffranum, or the Less Bastard-Saffron.

THERE is another Bastard-Saffron, brought from the Levant, about Alexandria, &c. which is in little Threads or Chives, extremely fine and small, curl'd and reddish.

This Saffron is also a Kind of Carthamus, which differs not from that afore, but only as it is much less. We chuse this Flower of the highest Colour and finest Red; and likewise as sresh as we can meet with. The Use of it is for the Q 2 Dyers

Dyers about Lyons and Tours, where they confume the greatest Quantity of it, to make their fine Colours, as the bright Spanish Carnation, and the like.

Crecurs or Crocus Satious, according Linery to Tournefort and Bushinus, in English, Suffron, in Plant which hears several long Leaves, very natrow, and hearow'd. It throngs about the find of Maril, or Reginning of Leaves with the Scale, or rather Foot, which supports a single Flower, comething releft bling that of the Colonists or disposed like hear to Lie, but such left being divided into fix Parts, of a three business. However, the three small Threads in the Nature to a Lutt, but divided and one the Colour and Street, which, when gather d and street is the Suffern.

The Root of it is a full as large and Chefnut, and sometimes bigger, belty, sweet to the Taste, and cover'd the white of the Colour'd Tunicles or Coats, supplied externally with a great many Fibres, whereby this fasten'd to the Ground. They cultivate his Plant in several Parts of Frame Sar bleve's by Ponnee I but the best is that of Gatinois, and the worst from Normandy. Chuse your least new and fresh, that is well dried and oly; but take Care that it be not artificial, by keeping it in oily Skins or Bladders, as is used by some. Let it be of a red Colour, with as little Yellow among it as may be. It abounds with an exalted Oil, mix'd with volatile Salt; and is condist, partioral, anodyne, hysterick, alternoonal, aperium, used sometimes as a Restonative to our Food, and his ollyries, to preserve the layer in the small sor, the enters the Compositive of some Plantens, specially Oxycraceum, but is the surface and the salters are the Compositive of some Plantens, specially of some is the surface of some Plantens, specially of some size of some Plantens, specially of some size of some Plantens, specially of some is the source.

The Plant which produces the belle is the Color Servers C. B. Phi. 68. Craim failure automatic. Park. Better toy The belle buffron in the World is thus of our other Growth. It is excellent to enliven the blood, remove Obstructions of the Vicera, and expell the morbid Humories in malignant Fevers. It is fall that in Hungary and Plant they our it as a Cordial, femetimes an Quince or more at a Time; but taken in excellent Quantities with us, it brings on Convellions. Delivering, and Death, if not prevented. Its usual Dose in Powder is about fix Grains, and in Tincture half a Dram.

The Bostara Saffron is the Carthamus sive Crocus. J. B. 3: 79. Carthamus officinarum flore Croces. Tourn. Inst. It is cultivated in some Places, and flowers in July. The lesser Kind differs from this only in its Place of Growth and Manner of Euring. J.

6. Of Balaustine, or the wild Pomegranate.

THE Balauthus are Flowers of the wild Processing which are Pomet. brought from feveral Partition the last vant. We fell the Sorte of Balautines, namely, the fine and the comment we mean by the fine the Hulls, together with their Flowers; the commentative nathing but she Hulk. The Balautine these Use in Marketines as they are powerful Affections; make closes of fach as are fresh, well regarded with Flowers of a deep Colour, that is, a fine Velvet red, is dittle mix'd with Chaff and Dire as possible. The common Sort are not south Regards being in Mainter wholly useless.

lour, that is, a fine Velvet red, is slittle mix'd with Charl and Dire, as possible. The common Sort are not worth Regard being in Manner wholly theles.

As to the describe Province and Languedec, as a Fruit that is very agreeable to eat, as well as useful of Physick, the Juce Serving to make a Syrup with. We fell principally the Rind of the Ponceranate, as being an Affiringent; but take Care that it be well dried, and does not finell musty: For the most Part of those who sell Principally in Rind of the Ponceranate, sell anothing but such as hath been dried whole, without emptying, and when they are so dried, and come to be used, they have such an ugly Take, that they are rather fit to make one fick than relieve one.

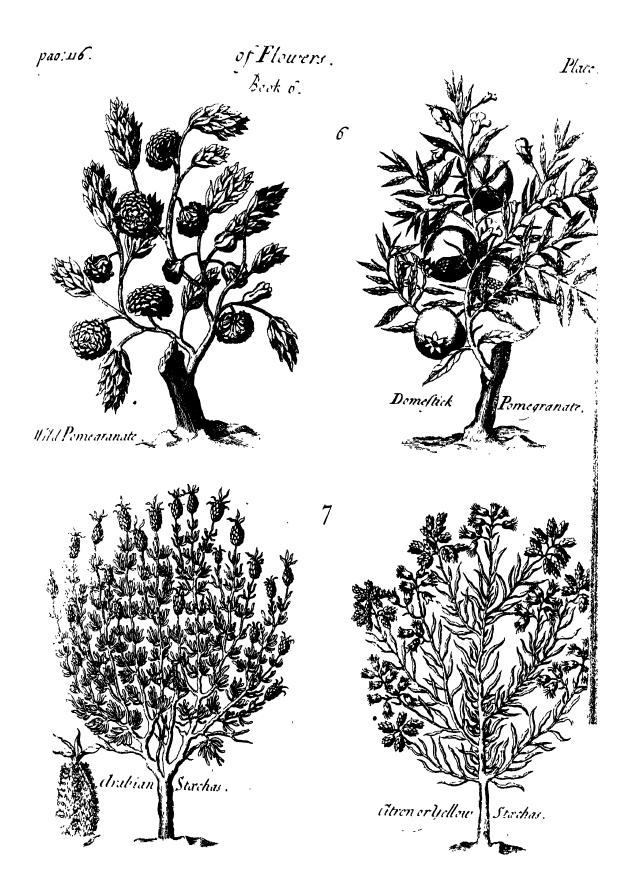
We fell also what is call'd a dry'd Conserve of Pomegranate, which is nothing else but a little melted Sugar colour'd, with the Addition of a little Cochined. Cteam of Tartar, and Alum. This Conserve is difficult to make, because of the small Quantity of Alum which is oblig'd to be mix'd with it, and there is nothing in the World more contrary to Sugar than Alum; which shews the Error of thiose who say that they mix Alum with Sugar to reflect it; and what we here affert is so true, that four Quantity of Alum is capable of hindering two thousand Weight of Sugar from incorporation. But to but little Quantities of it, for there is but little Demand for it, sind when it grows mails there is no recovering it to its Consistence again, as we can other Things of that Kind, because of the Alum In a Word, Alum is to Sugar as Office lake.

is to Sugar as Off to lik.

Punica Malus, or the Pemegranate,
is a Shrub, whereof there are two Lemery.

Kinds, one cultivated, or domestick,
and the other wild. The fift is call d by Tournefort, &c. Punica quæ malum Granatum fert, that
which produces the Pompranate; by Farkinson
and G. Baubinus, it is call d Malus Punica sativa:

The



The Branches are small, angular, arm'd with Thorns; the Bark is reddiff; the Leaves are small, and resemble those of the Myrtle, but less pointed, hanging by reddish Stalks; of a ffrong Smell when they are crush'd or bruised. The Flower is large, beautiful and red, inclining to purple, composed of five Leaves, like a Rose in the Hollow of a Cup, representing a little Basket of Flowers: The Cup is oblong, hard. purplish, large at the Top, having, in some Meafure, the Figure of a Bell; they call it Cytinus. At the Bottom comes a Fruit after the Flower is gone, which grows into a large round Apple. adorn'd with a Crown, form'd by the Top of the Cup; the Bark is as hard as Leather, of a purple Hue, dark without and yellow within. This Apple is call'd in Latin, Mahum Punicum, seu Granatum, the Pomegranate in English. It is divided internally into feveral Partitions full of Seed, heap'd one upon another, being fleshy, of a fine red Colour, abounding with a very pleafant Juice, each of which contain, in the Middle of them, an oblong Grain, yellow, and fometimes very irregularly form'd.

There are three Sorts of *Pomegranates*, which differ in Tafte; the one Sort are aigre, or fharp, the other fweet, and fome are betwixt both; manifestly neither the one nor the other prevailing, call'd vinous. These *Pomegranates* are improved in our Gardens, especially in all the warm Coun-

tries, as Spain, Italy, France, &cc.

The fecond Sort is call'd Punica Sylvestris, the wild Pomegranate. This is a Shrub like the former, but more rough and thorny: They gather the Flowers when in their Prime; and they are what they call Balaustia, or Balaustines; these are dry'd to keep, which the Merchant brings from the Levant. The wild Pomegranate grows only in the hot Countries, contains in it a good deal of Flegm, Oil, and effential or acid Salt.

The Balaustines ought to be chosen new, large, fair, well blown, of a deep Colour, or reddish purple, affording Plenty of volatile Salt and effential Oil. They are proper for Bloody Fluxes, Diarrhæa, Ruptures, to stop a Gonorrhæa, Whites in Women, and spitting of Blood. The

Bark is used for the same Intentions.

The Juice of the *Pomegranate*, which is sharp or acid, is most valued in Physick, as proper to fortify the Stomach, stop Vomiting and Looseness, precipitate Bile and Choler: The Seed is likewise aftringent, and used in Injections. There is found upon the Rocks in the Sea, a Stone, in Shape of an Apple, which both in Figure and Colour resembles this, and therefore is call'd a Sea Fomegranate

The Pomegranate-Tree, which bears the Fruit,

is the Malus punica fativa. C. B. Pin. 438. Granata Malus. Mont. Ind. 42. This is a wild Tree in hot Countries, though only to be seen in Gardens here. It slowers in May.

The Balaustine-Tree, which produces the Flowers of that Name, is the Balaustia Hispanica. I. B. 1. 82. Balaustia flore pleno majore.

C. B. Pin. 438.

The Flowers of the first Kind are sometimes used, and are call'd Cytini; but they are seldom to be seen in the Shops, as the Balaustines are esteemed so much the better Medicine.

#### 7. Of Arabian Stoechas.

THE Stæchas, very improperly call'd the Arabian Stæchas, as most Pomet. of that which we fell is brought to us from no other Part than Provence and Languedoc, where it grows plentifully, is the Flower of a Plant which has very narrow green Leaves; this Flower comes in the Nature of a Spike, of the Size of one's Finger's End, from whence arise little blue Flowers, almost like a Violet.

Part of the Stæchas we fell comes from Marfeilles, by reason of the Plenty they have in the Isles of Hyeres, which were heretofore call'd Stæchades, and probably gave their Name to this Flower. The little Use this Flower is of in Physick, makes it that we fell but small Quantities, which makes it generally old, and of little or no

Taste, Smell, or Virtue.

There is another Steechas we sell besides, whose Flowers are of a Citron Colour, to which some have given the Name of the Yellow Amaranthus; but the little Use that is made of it, gives me no Encouragement to say any Thing surther, but that it is a very common Plant in Provence and Languedoc. The Arabian Steechas grows so large and thick in Spain, that it is found as big as one's little Finger, and the Spikes or Heads sometimes white. The chief Use of it is for Treacle, wherein there needs no farther Direction but to chuse it fresh, good, clean and neat.

Stæchas Purpurea, according to Banhinus and Tgurnefort, is a beautiful Lemery. Plant, which bears, in the Nature of a Shrub, several Stalks, of a Foot and a half, or two Feet high, woody, and divided into several Branches. The Leaves are like those of Lavender, but much less, narrower, and whiter. The Tops support or carry Ears, or husky Heads that are oblong, mounted each on a Cluster of Leaves, and adorn'd with little Flowers, purple or bluish, disposed in Rows the Length of the Head. There succeeds to each of the Flowers four Seeds, that are almost round, blackish, and enclosed in a Covering, which serves as a Cup to the Flower. The Roots are woody. All the Plant has amaromatick Smell, with a Taste something acrid and bitter. It grows in great Plenty in Languedge, Provence, and the Isles of Hyeres, call'd by the Antients the Steechas Islands. It delights in dry and sandy Ground, and is brought dry to the Shops, where the Flowers are only used. It is call'd Arabian Steechas, because the greatest Quantities are brought from thence. It is extendating, detersive, aperitive, cephalick, hysterick, Grengthens and comforts the Brain, provokes Urine and the Terms, resists Poison, and expels Melancholy.

Some fay this Plant grows near the Rhine, that it has a pretty large Flower, much in the Shape of Hops, of a fragrant Smell when growing, yellow and bluish, but when dried of a brown Colour, and in Knobs. Those which are the largest, best scented, and least broken, are the best. These Flowers are diaphoretick and vulnerary, used chiefly in Diseases of the Head and Nerves, and by their Fume they dry up Defluxions. They may be used in Powder, from a Dram to two Drams. A Lixivium, or Lye, of the Ashes, in fair Water, will kill Lice and Nits in the Head. The Spirit of this Flower is reckoned excellent against all cold Diseases of the Womb, Wind, Gripes and Convultions; and exceeds Hungary Water internally or externally. The Syrup of Stæchas is given in Coughs, Catarrhs, Barrenness.

[These are the Flowers of the Stachas Arabica vulgo dista. J. B. 3. 277. Stachas purpurea. C. B. Pin. 216. The Plant is common in Spain and France; it is cephalick and deobstruent.

There is another Species of this Plant that has a Place in the Catalogues of Officinal Plants, and is there call'd Tragium alterum, which is the Tragium alterum Dioscoridis quibusdam foliis Trichomanis. J. B. 3. 279. Stæchadi serratæ Affinis. C. B. Pin. 216. The Root of this is accounted an Aftringent, but is seldom seen or heard of.

The Yellow is the Storehas citrina tenuifolia Narbonensis. J. B. 2. 154. Elichryson sive Storehas citrina angusti folia. C. B. Pin. 264. The Flowers of this are accounted good in Obstructions of the Viscera and King's Evil, but they

are feldom ufcd.]

# 3. Of Rosemary,

Ponet.

ROsemary is a Plant so common, it would be a needles. Thing to give a Description of it, but the considerable cale there is of what is produced from it, engages

Therefore I shall begin with me to treat of it. the Oil, which is made from the Leaves and Flowers, by Means of an Alembick, with a fufficient Quantity of Water; from which, by the Help of Fire, we have a white, clear, penetrating and fragrant Oil, indowed with a great many excellent Qualities: But the Dearness of this Oil, by reason of the small Quantity that it yields, occalions certain People to adulterate it, by mixing a confiderable Part of Spirit of Wine, well deflegmated, with it, or elfe they fell instead of it, Oil of Spike, Lavender, and other aromatick Oils: though it is easy to distinguish Oil of Refenery; as being white, clear, and transparent; of a sweet Smell, and very penetrating.

The Use of this Oil, which is call'd the Essence or Quintessence of Rosemary, is not very considerable in Medicine; but it is very much used by the Persumers, to aromatise their Liquors, Wash-Balls, &c. Some esteem it greatly for the Cure of Wounds, as a very specifick Bassam, which has given occasion to same Strollers and Mountebanks to make it a mighty Commodity, and swear that theirs is true Oil or Essence of Resember; when what they sell for it is nothing but Oil of Turpentine and Pitch, melted together,

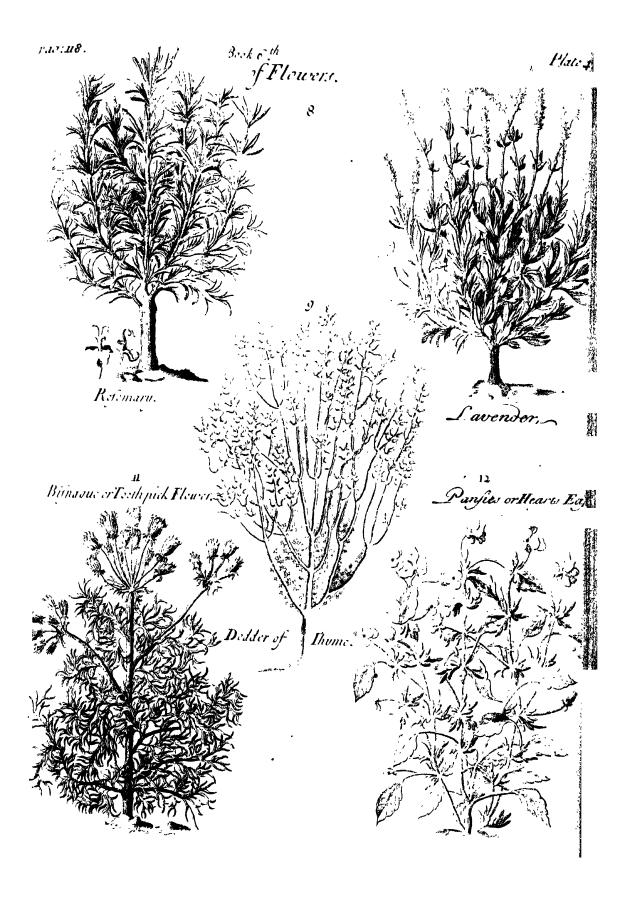
and colour'd with Alkanet.

The next Merchandize we fell that comes from Rosemary, is the Queen of Hungary's Water, which has made such a Noise in the World for so many Years together, and is pretended to be a Secret deliver'd by a Hermit to a certain Queen of Hungary. The great Virtues appropriated to this Water must be owing to the Spirit of Wine and Rosemary Flowers, from which two Things it is only made. There are a thousand Cheats imposed upon the World by those who pretend to have the true Receipt of making the right Hungary-Water: And these are the People, generally, that spoil this Medicine, by making it of the worst Materials, and in ordinary coarse Vessels; as their Manner is to take the whole Plant of Rosemary, insuse it in Aqua Vita, or common Spirits, and so distil it in an Iron Pot, with an Earthen Cap fix'd to it. You have it describ'd at large, and the best Method of preparing it, by M1. Verni, Apothecary of Montpellier, in his Pharmacopæia, or Treatife of distill'd Waters, pag. 829. and Mr. Charas, in his Pharmaceparia, pag. 632.

The Use of Hingary-Water is so universal, and the pretended Virtues so many, that it wou'd be endless to attempt to enumerate them; besides, there are so many Treatises take Notice thereof, that it wou'd be a Work situgether heedless.

We likewise sell the dry'd Flowers, and Seed and Salt of Rosemary, but in little Quantities.

We



We have likewise a liquid Conserve of the Flowers. Besides the Oil of Rosemary, they bring us from Languedoc and Provence Oil of Spike, which is made of the Flowers and the small Leaves of a Plant which the Botanists call Spica, five Lavendula mas, vel Nardus Italica, aut Pseudo-Nardus, which signifies Spike, male Lavender, Italian, or Bastard-Nard: These grow common in Languedoc and Provence, and upon all the Mountains thereabout. This Oil is frequently adulterated; and many People sell for it Oil of Turpentine, colour'd with a little Petroleum.

This Oil of Spike is proper for several Sorts of People; as Painters, Farriers, and others; be-fides its Use in Physick, wherein it is accounted cephalick, neurotick, cardiack, stomachick, and uterine; a great Strengthener of any weaken'd Part, especially the Head or Nerves; excellent against Vertigoes, Lethargy, Apoplexy, Epilepsy, Palfy, Convulsions, Syncope, Fainting Fits, Palpitation of the Heart; a good Specifick to strengthen the Eye-Sight, and open Obstructions of the optick Nerves, cure a stinking Breath, and relieve in the Spleen and Jaundice. We have from the same Places the Oils of Lavender, Marjoram, Thyme, Sage, Mint, and other aromatick Plants.

Rosmarinus hortensis angustiore folio, Lemery. according to C. Baubinus and Tournefort; or, the Garden Rosemary with the narrow Leaf. This is a woody Shrub, whose Stalk grows four or five Feet high, and sometimes much more, having several long Branches, ashcolour'd, on which grow long narrow Leaves, that are hard and stiff, of a brownish Green without, and whitish underneath; a little succulent, of a strong Smell, aromatick, and of a pleafant agrecable biting Taste. The Flowers are finall, but numerous, mix'd among the Leaves, each of which has a Tail cut at the Top into two Lips, of a pale blue Colour, inclining to white, of a sweeter Smell than the Leaves. When the Flowers are fallen, there follow fome little Seeds, that are almost round, join'd four together, and enclosed in a Capsula, or Covering, which serves as a Cup to the Flower. The Roots are small and fibrous. They cultivate this Shrub in Gardens, but it grows without Improvement near Narbonne in Languedoc, and flowers in May and June. The Flower is called Anthos, which is as much as to fay the Flower, by way of Excellence. Both the Leaf and Flower are used in Medicine; but those of Languedoc are to be valued before any of the more Northern Parts of France, because the Heat of the Climate renders the Plant there more spirituous and bitter. It yields a large Quantity of effential Oil and volatile Salt, befides fix'd Salt, which it affords great Plenty of, by burning to Ashes, making a Lye of them, then filtering, and afterwards evaporating in a Sand Furnace to a due Dryness.

[The Officinal Rosemary is the Rosmarinus coronarius fructicosus. J. B. 2. 25. Rosmarinus bortensis Angustiore folio. C. B. Pin. 217.

The Plant from which the Oil of Spike is

The Plant from which the Oil of Spike is made, is the Lavendula minor five Spica. Ger. 468. Pfeudo-nardus quæ Lavendula vulgo. J. B. 3. 282. This is a smaller Species of Lavender; but is not that Kind commonly known here by the Name of Lavender, and used in the Spiritus Lavendula Compositus, &c. That is the Flower of the Lavendula major sive vulgaris. Park. 72. Lavendula latissia. C. B. Pin. 216. and indeed is the most fragrant of all the Kinds.

#### 9. Of Dodder of Thyme.

EPithymum is a Plant like a Bush of Hair, found upon Thyme, from whence it took the Name of Epithymum, or Thyme-Weed. We fell two Sorts of it, to wit, the Epithymum of Candia, and that of Venice: The first in long Threads, of a brownish Colour, and pretty aromatick Smell. The fecond Sort, on the contrary, is very little, and curled, and has a great deal stronger Smell than the other. There is a third Sort of Epithymum, which our Herbarists sell by the Name of Country Epithymum; but this ought to be entirely rejected, as it is good for nothing at all, having neither Smell nor Taste, which is the very reverse of the two former, which you ought to chuse fresh, odoriferous, and the least bruised that can be. This Dodder is of some Use in Physick, 28 it is warm, deficcative, and aperitive; befides which it enters into feveral Galenical Compofitions.

There is another Kind of a Plant we fell, which we call Cuscuta Podagra, Angina Lini, Dodder, Whitwinde, Gout-Herb, &c. This Plant is the same Thing with the Epithymum, having no Difference; but according to the Plants it grows upon it changes its Name. And to prove what I say, I shall relate what M. Tournefort wrote to me on this Subject.

The Cuscuta, says he, is a Plant of a singular Kind: It comes from a very small Seed, that produces long Threads or Strings, that are as fine as Hairs, which perish very soon, as also does the Root, unless there are some Plants near it, for it to twist itself about; they catch hold of the Stalks or Branches of any such, and draw their Nourishment from the Bark of the Plant. It bears several Flowers, at Distances, gather'd into Balls:

The Rlowers are like little Cups, white, tending to a Piesh Colour, cut into four Quarters, in each of which is a round Capfule, membranous, and fill'd with four or five Seeds, small, brown, or greyish,

as little as Poppy-Seeds.

which it cliess; and it is believ'd, that as it receives in the critical from those Pants which it clies; and more upon the red.

As to the Celtick Name is in little stated on the control of the contro

Epithymum, stoe Cuscuta minor, is \$ Lenery. Kind of Cuscuta, or Dodder, that is dringy, and winds itself upon any Plant it approaches, being of a reddish brown Colour, and having a pleasant fragrant Smell; that which has fewelt Stalks in it is to be preferr'd. By sceing how Dodder grows upon Nettles, Hemp, &c. we may apprehend what it is like. It is brought to us out of Turky, Italy, Venice, and other Pars of the Streights. It is reckon'd amongst Catharticks, and faid to purge watry Humours and Melancholy; is aperitive, arthritick; purifies and cleanfes the Blood; is good for the Spleen and Hypochondria, Wind, Rheuma-tifm, and Gout, being beaten to Powder, or taken in Infusion in Water, Wine, or Whey.

[The Epithymum is the Cuscuta minor, Tourn. Inft. 692. Cuscuta minor, sive Epithymum, Buxb. 89. and the common Dodder, the Cufcuta, five Cassutha, Ger. 462. Cassuta, sive Cuscuta, J. B. 3. 266. Neither of them are at all used

in the present Practice.

## 10. Of Spikenard.

SPikenard, or Indian Nard, is a Kind of Spike of this Length and Thickof Spike of the Length and Thick-Pomet. ness of one's Finger, adorn'd with little brown Hair, or Nap, that is rough, coming from a fmall Root of the Size of a Quill. They fay that the Spikenard grows in Tufts or Bushes close to the Ground, and that it railed a flender, long Stalk; but as I never faw it growing, I have fet it down in the Manner as we fell it, according to the Figure engrav'd with the Root, to hew that the Root is not fo small and slender as Authors wou'd make it. As I have Pieces like that I had the Figure engrav'd from, which I found among the Spikenard I keep for Sale.

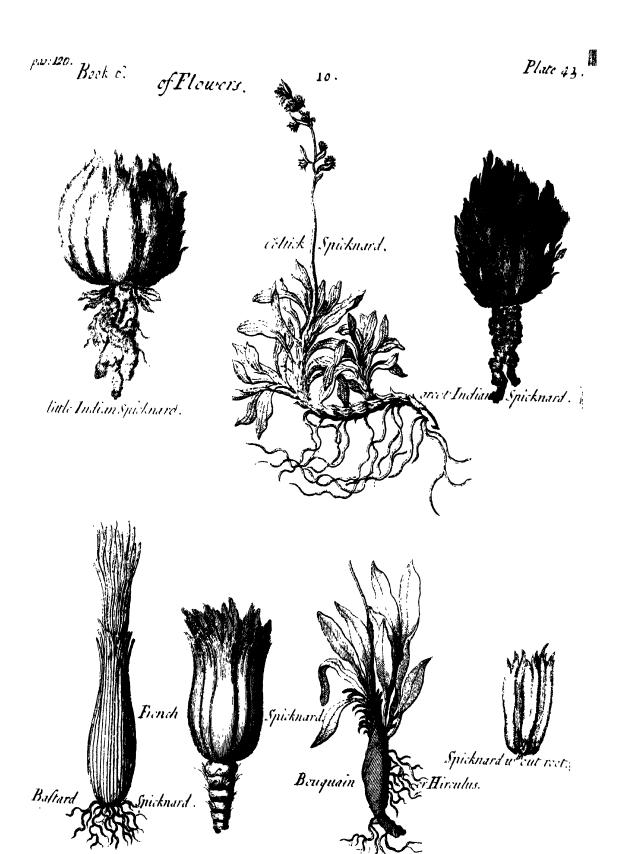
We fell three Sorts of Spikmand, namely, the Indian Spikenard, to call'd, because it comes from India, whereof there are two Sorts, viz. the

great and the Small. The fecond is the Mountain-Spikenard, which is brought from Dauphing. ... And the third is the Celligh Spikenard. The small Indian Spikenard is according as it is expressed in Figure; it is of a bitter Taste, and a strong This Plant grows indifferently on all Sorts of disagreeable Smell; and the large is of the Length. Herbs, and there are above a hundred Plants to and Thickness of one's Finger, and much of the

to us, they are fit for transferring. In the Mid-dle of the Leaves comes a little stalk, about half a Foot high; at the End of which are many finall Flowers, of a Gold Colour, hap'd like Stars. This Spikenard is brought us in Buriches from different Parts, but the greatest Plenty comes from the Alps, from whence we have it by the Way of Marseilles or Rouen. The Use of this is only for the great Treacle, where it undergoes a long and difficult Preparation; for they are forc'd to put this some Time in a Cellar to make it moift, that its little Root may be the eafter clean'd, which is the only Part put into the faid Composition. One ought to take Care of several little extraneous Plants, which are usually found mix'd with it; as Bastard Spikenard, Hirculus, or the like. Chuse all the Kinds as fresh and fragrant as possible.

The great Indian Spikenard should never be used but when the little one is not to be had; the Mountain Kind ought to be entirely rejected.

Nardus Celtica, or Spica Celtica, is a little knotty Root, yellowish and aro- Lemery. matick, being form'd like an Ears from whence it takes the Name of Spike or Spica. It bears fine small Fibres, or flender Tails, pretty long, which support small oblong Leaves, narrow at the Bottom, large or broad in the Middle, and ending in a Point of a yellow Colour; there rifes parong the Stalks a little Stein of about half a Foot high, bearing on the Top a good many Flowers in Form of Stars: It grows in the Alps, Fyro Liguria, Carinthia, Styria, &cc. That is belt with is fresh, sweet-scanted, with many fmall and frong, or not brittle; it is hot and any and of the Nature of the Indian Spikenard but not altogether fo frong; it strengthens the Stanach, expels Winds, is good against the Cholice, and provokes Uring in may be given in Pouder, from a Scruple of Dram, and in Tincture to half an Ounce.



Nardus Indica, or Spica Indica, the Indian Spikenard, is a Kind of Ear as long and thick as one's Finger, light, and supplied with long Threads, or Hairs, that are reddish, not brown, of a strong, unpleasant Smell: It grows in India, and is brought thence to Alexandria in Egypt, and from thence to Venice, and so hither; and is call'd Spica, because it resembles an Ear of Corn. There is a Bastard Spikenard, which is a Sort of Layender; a fecond Sort of Narbonne; and thirdly, a Mountain Spikenard, like Valerian. When you chuse the Indian Spikenard, let it be such as is dry, of a yellowish red, or Cinnamon-Colour, fresh, smooth, with a long Beard, or Fibres, and a sharp Spike, biting on the Tongue, fweet-scented like Cypress, and keeping its Scent long. If it be moist or whitish, or rough, and without Hairs, and Fibres like Wooll, it is maught: It is hot, cephalick, itomachick, and alexipharmick; attenuates and aftringes; ftops Fluxes, yet provokes Urine and the Terms, powerfully expels Wind, and cures the Jaundice; it relists the Malignity and Poison of the Plague, and all Manner of malign and pestilential Fevers: It is used in Powder, besides its being an Ingredient in Mithridate, Venice Treacle, and other Antidotes. Its Dofe is from half a Dram to a Dram and a Half; and there may be an excellent compound Oil made of it, with the Addition of other Spices.

[The Indian Spikenard is the Root and hairy Fibres of the wither'd Leaves of the Gramen Cyter.ides aromaticum Indicum, Breyn. Prodr. 2. 53. It is brought to us from the East-Indies and

Fgypt.

The leffer Kind of this, mention'd by Pomet, differe in nothing from the larger, but that it is the Root of the younger and smaller Plants, and for that Reason is commonly the stronger scented.

The Celtick Spikenard is the Root with the first Leaves of the Nardus Celtica Dioscoridis, C. B. Pin. 165. Nardus five Spica Celtica, Park.

117.

And the Mountain Spikenard the Root and Leaves of the Valeriena Nardus ditta radice Olivari, Hist. Ox. 3. 103. Nardus Montana tuberosa, Park. 116. This is supposed to have the same Virtues with the Celtick, but is but little used.]

# 11. Of Bisnague, or Tooth-Pick-Flower.

Pomet. THE Bisnague, or Visnage, is the Tusts and Tassels of a Plant where-of you have the Figure under that Name, which grows plentifully in Turky, from

whence we have it brought to sell. This Plant is cultivated in several Parts of France, but chiefly in the Royal Garden at Paris. Of the whole Plant we sell nothing but the Tassels, because the People of Quality, in Imitation of the Turk, use them as Tooth-Picks; and the rather, because they are of an excellent good Tasse: As to your Choice, you need not be otherwise curious, than in taking such as are whole, the largest and sairest you can get.

[These are the Seeds of the Gingidium Faniculi folio, C. B. Pin. 191. Gingidium verum

Syriacum, Park. 890.

Thapfia orientalis, anethi folio, femine eliganter crenato, Tourn. Cor. 22. Boer. Ind. 60. This is the true oriental Kind. There are also the Seeds of another Plant put to the same Use, call'd the Spanish Tooth-Pick, which is the Gingidium umbella longa, C. B. Fin. 151. Visnaga Gingidium appellatum, Park. 890. Visnaga, Boer. Ind. Æ. 49. The Plants have both the same Virtues with Fennel, but are never used, except in the Tasses, which make excellent Tooth-Picks.]

# 12. Of Hearts-Ease.

Besides the Bisnague, we sell a certain Flower, which is brought us from Provence and Languedoc, or from Lyons; because of its bluish Colour, and its Resemblance to Violets, when dry'd; upon which Account the Apothecaries use it instead of March Violets in several of their Compositions, where the true Violets are required, which is an Abuse, as it has been observed by Mr. Charas, in his Pharmaco-

pæia, the second Edition, Page 334.

But these are not true Violet Flowers, but the Flowers of a Plant, whose Figure is here given under this Head, and which is what the Botanists call Viola Tricolor erecta, Assurgens Tricolor Do-donai, &c. and others Viola Pentagonia; in English, Pansy or Fancy; Flos Trinitatis, by some, Trinity-Flower, and by others Hearts-Ease: It is call'd the Flower of Trinity from having three Colours; to wit, the Violet, the blue, and the yellow; force have thought these Flowers, tho' erroneously, a proper Succedaneum for true Violets; which being fo well known in all Countries, and treated of in every Herbal and Dispensatory, I shall say nothing further of, either in relation to the Syrup, Flower, Seed or Comfit; but advise every Body to apply themselves to honest People when they want any of them, that they may furnish them with what is true, natural, and not decay'd.

There are other Sorts of Flowers fold by us, as red Poppy, Colt's-Foot, St. John's Wort, Centaury, Cat's-Foot, and Lilly of the Valley, and several others People are surifiched with from the Heib-Shops, and publick Markets in Paris, as I told you before; for which Ressent there are a great Variety of Simples that we so not keep in our Shops.

Lemery. Jacea major, sive Viola Tricolor, sive Trinitatis flos, Pansy, or Ponsie in French, and Fancy in English, is a Kind of Violet, or Plant, bearing its Leaves upon creeping Stalks, like those of Ground-Ivy; the Flowers are blue, purplish, or white and yellow, without any Smell, each composed of five Leaves. After the Flower is gone, there appears a Pod, or Bag, which contains several small Seeds; the Root is sibrous and stringy. This Plant is cultivated in our Gardens, slowers most of the Summer, and yields some essential Salt and Oil: It is incisive,

vulnerary, detersive, penetrating and sudorifick; good for Ulcers of the Lungs, Coughs, Obstructions of the Worns and Gall: The Juice taken in White Wine, the, is good against Fabers and Inflammations, drank for a Continuance of three Weeks or a Month; it is faid to be a specifick in the Venereal Disease: The Gainst Tinchure is much more effectual for that and other Purposes above-mentioned: Dose three Danns in any proper Vehicle.

[These are the Flowers of the Viola Tricolor, Ger. 703. Viola Tricolor major et vulgaris, Park. 756. They are never used in Medicine, the other Violet we make the Syrup from, postessing all their Virtues in a much greater Degree, which is the Viola martia purpurea flore simplici odorato, C. B. Pin. 199. Viola simplex martia, Park. Parad. 282. The Syrup of this is the hardest to keep, but is also happily the hardest to counterseit of any in Shops.]

The End of the Book of FLOWERS.

# BOOK the Seventh.

# Of FRUITS.

# PREFACE.

In this Chapter I shall take in whatever hears the Name of Fruit, and whatever, in Herbs, Plants, Shrubs, or Trees, it is that succeeds the Flower; and likewise, whatever is produced by any of them, whether naturally, or as an Excrescence, as Misselto by the Oak, Agarick by the Larch Tree, and the like: I shall also speak here of what we have from Fruits. Fruits are commonly distinguished into two Sorts, to wit, into such as hear Nuts, and such as hear Stones or Kernels. It is said that I ruits are composed of three essential Parts, namely, the Skin, or outward Membrane, the Pulp or slessy Part, and the Fibres or stringy Parts. There are Fruits whose Kernels are covered with a Capsula, or Case, that contains the Seed, and others that are not.

# 1. Of White Pepper.

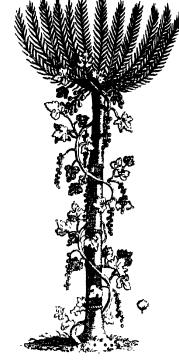
Pomet. WIIITE Pepper is the Fruit of a climbing Plant, whose Leaves are entirely like those of our Gooseberry; after which come small Clusters, adorn'd

with round Seeds, green at first, but when ripe

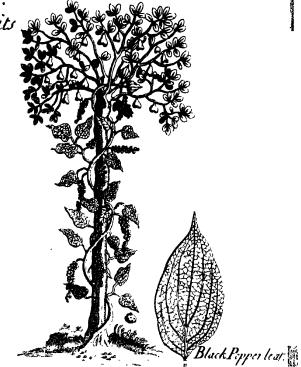
they are of a greyish Colour.

As this Pepper-Plant cannot support itself, the Inhabitants of those Parts where it grows, plant it at the Root of certain Trees, as the Areca, which is a Sort of Palm-Tree, very straight and tall; the Cocoa, or other Trees of the like Na-





White Popper dumbins up & Areca.



Black Popper dimbing up & Aciay.



Mecaxuchit.



Long Indian Pepper of Ame:

ture. But as this Pepper is rarely brought to us. a great many Persons will affirm, that there is no fuch Thing as true natural White Pepper, and that what we have is only the Black with its outward Rind taken off. It is for this Reason I have given you the Figure, and will endeavour to prove the White Pepper to be natural in some Places, according to what M. de Flacourt, Governor in the Isle of Madagascar, asserts; who says, that the true White Pepper grows upon a Creeper, and that the Stalk and Leaves smell altogether as Pepper; and that there are great Quantities in that Country, where the French might have a good Establishment, and lade their Ships, every Year, with a great deal of it; for the Woods all about are full of it, so that it is Food for the Turtles and Wild Pigeons. It is ripe in August, September, and October. Tho' some Authors, and among the rest Piso, in his History of the Indies, and after him Mr. Charas, observes, that there's no such Thing as White Pepper, it shall not hinder my Belief of it; for it is impossible that they can ever bark Black Pepper, so as to make it smooth and even, as we find the white Coriander Pepper that the Dutch bring us. And further, when we break the Pepper, we fee the outward Skin, which is an infallible Token that was never taken off; and if it had been bark'd, we should have discover'd some Grains with the Wrinkles remaining; and this is fuch a Truth. that all the Peppers we find bark'd, or husk'd, and blanch'd in Holland, we always find a great Part of them plainly to have a wrinkled or wither'd Skin.

Chuse the true White Dutch Pepper, the largest, best fed, heaviest, and the least Black amongst it, that you can get; and take Care of fuch as is blanch'd, which is foon known by rubbing it in your Hands; for the white mealy Colour will change yellow: Besides that, the Coriander Pepper, that is not blanch'd, will appear with little Streaks like Ribs; and when beat to Powder, of a fine grey, tending to a white Colour: Its Uscs are too well known to detain me any longer on that Head. We pound, or reduce to a gross Powder, the white Coriander Pepper, upon which we throw Essence of Ambergrease. and then it is call'd Amber-Pepper, or Bergerac Pepper, which has no other Use than to gratify Persons of Quality.

# 2. Of Black Pepper.

BLACK Pepper is likewise the Fruit of a Creeper that has large broad Leaves, very shrous, and supplied with seven nervous Ribs, that are very conspicuous, according to the Figure

which was given me by M. Tournefort. The Dutch and English bring three Sorts of Black Pepper, which differ not from the other, but according to the Places where they grow. The first and finest is that of Malabar; after that the Pepper of Jamby, which comes the nearest to the The third Sort is a meagre, lean, dry Pepper of Bilipatham; and tho' that be the least of all, it is nevertheless most esteem'd by the Mahometans, because, they fay, the smaller the Pepper is, the better Condition it is of: The smaller Pepper is not so hot as the great Pepper, which is the Reason the Dutch rarely bring any of the little Pepper from India: Besides, they have a better Trade for the large Malabar Pepper than other Nations, in that they never pay any Ready Money, but truck with the Natives for their Commodities which they carry thither, as Quick-Silver, Cinnabar, and the like; whereas the English buy theirs with Ready Money; for which Reason they cannot well afford one Bale of Malabar Pepper, to a Lot of Black Pepper of ten Bales, which makes the Pepper from England feldom so fine and large as the Dutch.

Chuse your Black Pepper well fed, and little wither'd or wrinkled, heavy, and as clean from Dirt and Dust as can be; and take Care of being imposed upon with Pepper, the largest of which has been pick'd out for making White Pepper.

The Black Pepper is used as the White, and is likewise of Use in Medicine, because of its Warmth; for which Reason it is employ'd in fome hot Compositions, as Venice Treacle, and fome others. Druggists sometimes sell it; but it is mostly fold by the Grocers. Pepper expels Wind, and cures the Cholick, fo that it is the Basis or Foundation of most of the Gripe-Waters that are made: The Tincture is good for most cold Diseases of the Nerves and Brain; as Palfies, Convulfions, Rheumatifms, Sciaticas, The Chymical Oil, whereof this yields but little, is an incomparable Remedy, internally or externally, in Weakness of the Parts of Generation of Men or Women, as likewise in Barrenness; a few Drops of the Oil in any proper Liniment, rubb'd upon the Perinaum three or four Times, will restore a lost Erection.

# 3. Of Fine Spice. .

THE Fine Spice is a Mixture of several Aromaticks together. To prevent the Abuse that attends this Composition, I have thought fit to give the Receipt of those Things it ought to contain: Take Black Dutch Pepper, sive Pounds; dry'd Cloves, one Pound and a Half; Nutmegs the same Quantity; fresh dry'd Ginger, two Pounds

and a Half; green Anise and Coriander, of each three Quarters of a Pound; powder them separately, and sift them thro' a fine Sieve; then mix them together, and take Care to keep them close

stopt for Use.

#### 4. Of Cubebs.

**TUBEBS** are a little Seed, or Berry, so like the Black Pepper, that if it was not for their little Stalk or Tail, and that they are a little greyish, no Body could find out the Difference betwixt them and Pepper: These grow likewise on a creeping Plant, the Leaves of which are long and narrow; after which comes the Fruit in Clufters, each being ty'd by the Means of a little Stalk. The Isle of Java, Bantam, and other Parts of the Eastern World, produce great Quantities of Cubebs; they are of some Use in Physick, from their pleasant Taste, especially when held in the Mouth without chewing; likewife of admirable Use to make the Breath sweet and help Digestion. They are faid to be good for Barren Women, by taking away the Coldness, Moisture and Slipperiness of the Womb.

The best are such as are large, heavy and fresh. Not many Years ago it was disputed what they were; some said they were a Sort of Pepper like the Black; others thought they came from the Agnus Cassus; and some again said they were the Fruit of a Ruscus, or that of Amonum; which were all salse Conjectures; for they are the Fruit of a creeping Plant, as I have before described,

and delineated in the Figure.

# 5. Of Thevet Pepper.

THE Thevet Pepper is a small round Berry, of the Size of White Pepper, reddish as to Colour, and at one End has, as it were, a little Crown; but as this Pepper is of no Kind of Use, by Reason of its Scarcity, I shall say nothing sur-

ther of it, but only that it has a pleasant aromatick Taste. The Tree that bears it, is of the same Figure, as expres'd in the Plate under the Name.

The Dutch likewise give the Name of Amomum to this Pepper, as well because of its Resemblance to Jamaica Pepper in Shape, as because it has almost the same Taste; and because it is both round and bears the Taste of Clove, it has obtain'd the Name of the little round Clove, to distinguish it from the Clove, or Madagascar Nut. They use it in the Place of the common Clove, as the other.

## 6. Of Long Pepper.

LONG Pepper is the Fruit of a Plant altogether like that which bears the Black Pepper, except that it climbs not so high, but grows commonly in the Nature of a Shrub, and supports itself upon its own Stem, and has smaller and much greener Leaves, the Stalks of which are not so long as those of East-Indian Long Pepper.

The East-India Long Pepper, which is that we usually sell, is a Fruit of the Thickness and Length of a Child's Finger; it is, properly speaking, nothing else but a Collection of Seeds together, something red without and blackish within. In each of these Seeds is a Kind of Kernel, or a Sort of white Powder, of a hot biting Taste; they stick so close together, as not to be separated but by pounding; and this Mass forms a Kind of Fruit of the Size and Length aforesaid.

The Dutch and English bring Plenty of this Pepper from India; which, to have its requisite Qualities, ought to be fresh, well fed, weighty, hard to break, sound, and as clear as can be from Dust and Dirt, which it is very subject to be full of. It is of some Use in Physick, as it is an Ingredient in the great Treacle, and some other Galenical Compositions; and is recommended, when bruised into a gross Powder, to boil in any Food, and given to Nurses to increase and give a fresh Spring to their Milk. It warms a cold Stomach, raises the Appetite, consumes crude and moist Humours, expels Wind, provokes Urine, and cures the biting of Serpents, and other venomous Creatures.

# 7. Of Long American Pepper,

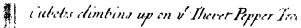
THERE is found in the Islands of America a Shrub, which has Leaves almost like those of Plantain, which produces a Fruit about a Foot long, according to the Relation of Nicholas Monard. This Fruit is composed of several little Seeds, placed about a long Stalk, ranged in Order and touching one another, and are together of



Book 7. of Fruits .

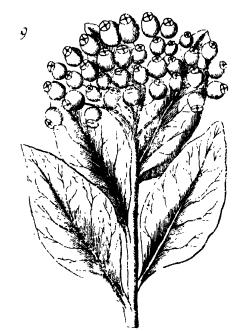


Ethicpian Popper.





Perts



The Jamaica Pepper or all Spice

the same Shape as the Long Pepper. The same Author says, that the Fruit, when fresh and young, is green; but when the Sun has ripen'd it, black; and that it has more Acrimony than the Long East-India Pepper.

This Long American Pepper is what the Americans call Mecazuchit, which ferves them to put into Chocolate. 'Tis likely the Author of the Book of Tea, Coffee, and Chocolate, never heard of this Fruit, for the has taken no Notice

of it.

This Lang Pepper, in Appearance, is that which the Reverend Father Plumics means by the Name of Saurusus, Betryitis runjon, Arborefcens faliis Plantagineis, which figuifies, the great Shrub Lizard's Tail, with Plantane Leaves. The Reverend Father observes, that this Long Pepper is a Fruit, or rather a Cluster, of half a Foot long, and four or five Lines thick at the Bottom, but grows narrower at the End; and is full of a great many Grains, or Seeds, of the Size almost of Mustard-Seed, which are green at first, and black and foft when ripe, of a hot biting Tafte. The same Father says, That this Pepper is much used by the Islanders, as likewise the Root of the Plant, for curing a Dife fe they call the Stomach-Ach. He further observes, That there are several Kinds of this Plant met with in the Islands, which vary not, five only as to the Size of the I caves; but as his Account would be too tedious to infert in this Place, I shall refer the Reader to his Book, where it is treated of at large.

# 8. Of Long Black Pepper.

B Esides the other two Sorts of Long Black Pepfometimes, the very rarely, a third Sort, by the Name of Long Black Pepper, or Ethiopiun Pepper, Mooriji, or Zelim Berry. This Pepper is the Fruit of a creeping Stalk, which produces nather Leaves nor Flowers, but only five or fix Heads of the Bigness of one's Thumb End, hard and roundish, from whence proceed several Pods of the Length of one's Little Finger, and the Thekness of a Quill, brown without and yellow within. These Pods are divided by Knots, and in each Knot is found a little Bean, black without, and reddish within, without any Tasle or Smell, which is unlike the Pod, for that is of a hot, acrid, biting Tafte, and pretty aromatick, especially when held long in the Mouth; and by reason of its great Acrimony, the Ethiopians make use of it for the Tooth-Ach, as we do Pellitery of Spain. But as this Pepper is little known, and very scarce, I shall trouble you no further with an Account of it.

# 9. Of Guinea Pepper.

Uinea Pepper, or Garden Coral, which the Americans call Mexico Pepper, Tobago, Brafil, Spanist , I ong Red Indian Pepper, Chilli Axi, or Carive, and we French Pepper, or American Pepper; is a red Pepper, whereof there are three Sorts, viz. . he first, that we sell, which comes in Pods of the Thickness and Length of one's Thumb. The second is much smaller, and as it were emboss'd. The third is much less, and almost entirely round. All the three Sorts of this Pepper, as they hang to the Plant, are green in beginning, yellow when half ripe, and red at laft. Of the three Sorts we fell only the first, in that the others are too acrid, so that none but the Natives can use them; they, indeed, are very fond of them.

The Guinea Pepper which we fell, comes from Languedoc, especially the Villages about Nifmes, where they cultivate it very much: And this Plant is at prefent so very common, that we have few Gardens without it. The Use of it is chiefly for the Vinegar Makers, to make their Vinegar; for which Purpose it ought be fresh, in fine Pods, well dry'd, and of a good red Colour. Some People make Comfits of this Pepper to carry to Sea, and the People of Siam eat this Pepper raw, as we do R lifthes: But it is much more grateful to the Palate and Stomach, and must undoubtedly please better in Sauces, being preferv'd a Pickle thus: Take strong Brine that will bear up an Egg, and Wine Vinegar, of each a Quart; good Spirit of Wine, a Pint; put the Pepper and sinto it, as well unripe and green, as those that are rice, and of a red Colour.

[Black Pepper is the Fisit of the Lada, allis Molanga, five Piper crematicum, Pil. Mant. a. 492. Piter retundent ex Midobas, felis latis, quinque nervis aibicantibus, How Mifr. Zeylan, 32.

The White Pepper is the Piper allown Leuco-

piper, Mont. Kot. 9.

The East-Indian Long Pepper is the Fruit of the Hatlanewaye seve Piperis longi species, 2 Hein. 126. Cattatripali, Hert. Mal. 7. 27. Tab. 14. This is always gather'd before it is quite ripe, and is brought to us from Java and Malabar.

The American Long Pepper is the Fruit of the Saurunus humilis folio carnofo fub rotundo, Plum. 53. Fig. 70. Piper long am humilius fructu e fummitate caulis propendente, Cat. Jam. 45. This grows principally in New Spain; it is in some Places made an Ingredient in Chocolate, but we seldom see it here.

The Guinea Pepper is the Fruit of the Capsieum longioribus siliquis, Ger. 202. Solanum Capsicum dictum vulgatissimum, Hort. Lugd. Bat. 354. There are many Species of this Plant, but the Pods we see preserv'd in Pickles are the Fruit of this Kind.

The Ethiopian Pepper is the Piper Ethiopicum filiquofum, J. B. 187. Carpefium Cord. Piper ob-

tongum nigrum, C. B. Pin.

The Tree which produces the Cubebs is the Arbor Bisnagarica myrti amplioribus foliis per siccitatem nigris Cubebæ fapere, Pluk. Alm. 33. bor Baccifera Brasiliensis fructu Piper recipiente, R. Hist. 2. 1593. We have these from Java, where the Inhabitants boil, or at least scald them in hot Water, before they export them, to prevent their being raifed any where elfe.

The Thevet Pepper is the Fruit of the Xocoxochitl seu Piper Tavasci, Hern. 30. but it is ne-

ver feen among us.]

#### 10. Of Cloves.

THE Clove is, properly speaking, the Flower of certain Trees, that is made hard and black by the Heat of the Sun: They were always very common in the Molucca Islands 'till of late Years, the Dutch not being able to hinder the English, Portuguese, and French from going thither, and bringing away Cloves from thence, thought it adviseable to make themselves entirely Masters of that Commodity, to pluck up all the Trees, and transport them to an Island of their own, call'd Ternate; by which Means other Nations are forc'd to purchase that valuable Merchandise from them.

As to the Leaf of the Tree bearing the Clove, the Figure here represented in the Plate, was taken from the Original in the Hands of M. Tournefort. Here is also the Root, the Stalk, and the Leaves, in the Figure mark'd A, which came from two Cloves which were planted, and which in a little Time produced that little Root, Stalk,

and Leaf, as represented.

When the Clove begins to appear, it is of a whitish green, afterwards reddish, and according as it ripens, it grows brown; and that without being steep'd in Sea-Water, and dry'd before the Fire, as some Authors have observ'd: For the Dutch, and Natives of the Islands, make no other Preparation of the Cloves than after they are beaten from the Tree to let them dry in the Sun, exposed in the open Field, and after that keep them carefully. As it is impossible but there must remain some Cloves upon the Trees after the Crop is got, thefe grow to the Size of a Man's Thumb, and contain a black Gum, of a pleafant Smell and fine aromatick Tafte. I never had any fo large, but only of the Bigness of one's Little Finger's End. We now and then meet with some of these among the Claves, but very seldom; because the Dutch sell them separately, by the Name of the Mother-Clove; and these large ones are known in Physick by the Name of Antephylli; but the little Use of them is not a sufficient Encouragement to the Apothecaries to enquire after them, otherwise they are proper for Use, as abounding with a Gum, that is vastly more fragrant and aromatick, and endow'd with much greater Virtues than the common Clove.

It is observable, that near to where the Clove-Trees grow, no other Tree or Plant will thrive; because the great Heat of these Trees consumes all the radical Moisture of the Earth round about them. It is observable likewise, that there are no Trees or Plants in the whole World that afford so sweet a Smell as the Cloves when they first

appear.

Chuse such Cloves as are well fed, or oily, dry, brittle, or easy to break; of a tawny red, well furnish'd with the Top, or Head, to which fome improperly give the Name of Antophyllus: I mean, that little Head at the Top of the Clove, which is very tender, and of a clear tawny Colour; and which, being put into the Mouth, has a hot, piquant, aromatick Taste. Reject such as are lean, blackish, soft, and without Taste or Smell; taking Care that fuch as are good are not mix'd with fuch as have had an Oil or Tincture extracted from them, which renders them of a flat, bitter, earthy Taste. The Use of this Drug is too well known to need any Account of its Virtues, which are so considerable, as to give it a Rank among the best Cordials.

The Dutch candy Cloves when they are green, and they make an excellent Confect, which is of great Use to carry to Sea, to correct and expel Wind, prevent Crudities of the Stomach, Fainting, Swooning, &c. as also to restore Nature where decay'd, and recover a weak and languid Constitution, giving Heat and Vigour to the Bo-

dy, and Motion to the Limbs.

The Dutch distil a great deal of essential Oil from the Cloves, and too often impose them on Strangers afterwards for a true Commodity. This Oil is used by the Perfumers, Surgeons and Apothe caries, in feveral Compositions, and as a Corrective for many Sorts of Purges, as Pilulæ ex duobus, Ge. There is a white Oil of Clows made by Means of Fire, a Drinking-Glass, and the Bottom of a Scale, as observ'd by Mr. Lemery, but it is feared worth the Time of doing it, and it is not better than the other Sort.



# 11. Of the Royal Clove.

THERE is another Clove express'd in the Figure, which we meet with now and then in Holland, tho' it is but seldom; which is a small Fruit of the Shape and Bigness of a Barley-Corn, and which terminates in a Point, sticking five or fix together upon one small Branch; so that they resemble, in some Measure, a little Crown.

This Clove is of an Iron Colour, and has the fame Taste and Smell as the common Clove. They say there is but one Tree that bears this Fruit in all the Country, and that grows in the Middle of the Isle of Massia, in the East-Indies, where it is call'd, by the Inhabitants of the Island, Thinca Radei, which signifies Royal Clove. This Fruit, by the Order of the King of the Island, is guarded by Soldiers, that no Person may have it but himself. They pretend likewise, that when this Tree is loaden with Fruit, the other Trees bend down towards it, to pay their Homage; and the Flowers of the common Clove sall off when these begin to appear. They string this Fruit, and make Beads of it, to carry about them, because of its agreeable Smell.

I shall say no more of this Clove, having nothing certain that I can collect, and having never seen it, notwithstanding all the diligent Enquiry I have made: But the Thing has been certified to me by a Person who saw it in Holland, and Piso speaks of it in his Natural History, from whence the Figure is taken; and Mr. Wormes quotes it in express Words, in the 203d Page of his Book; the Sense of these Authors I have already given you in English, but for the more Curious I shall deliver it in the Original from Piso.

Garyophillus Regius fructus est à nemine quod sciam hactenus descriptus, storem potius quam fructum sigura referens, longitudine est grani hordei, siusdemq; serme latitudinis, oblongus, angulosus, six vel octo cuspidinibus alternatim è lateribus erumsentibus, & in summitate quasi coronulam constituentibus; colore ferrugineo, odore Garyophillorum arematicorum, sapore acri & plane Garyophyllaceo. Provenit in insula Macciam India Orientalis; ab ineolis vocatur Thinca Radoi, quod exponunt Garyophillus regius.

Magno in pretio apud Indos sunt hi Garyophylli, & ad nos raro deseruntur. Unicam saltem serunt esse hujus fruetus arborem in tota India in medio dicta insulae sitam. Flores ubi producit hac arbor decidunt stores reliquarum arborum, quae communes serunt Garyophyllos. Arbores etiam reliquae versus hanc se incurvant, honorem quasi deserentes, ut aiunt qui viderunt. Rex insulae Satellitibus hanc arborem stipat, quamdiu fruetum fert, ne quis pra-

ter ipfum eo gaudero posst. Hæc ex ore ejus qui in insula fuit & arborem se vidisse testatur; quæ, si vera, mira. Fructus silo per longitudinem trajicere solent, ut Armillarum loco, ob odoris gratiam, in brachiis gestentur.

Caryophylli, sive Garyophylli, in English, Cloves: They are call'd a Fruit, Lemery. but are rather an aromatick Flower from an Indian Tree, whose Leaves are long, broad, and pointed. When the Fruit begins to appear, their Colour is of a whitish green; afterwards they grow red, and at last, when ripe, are of a dark brown, as we see them of. The large Cloves are call'd, in Latin, Antophylli, or the Mother-Cloves, but they are very scarce. There is also the Caryophillus Regius, or the Royal Clove [describ'd by Pomet from Piso.] It has this Name from bearing on its Top a Sort of Crown; for which Reason the King of the Country keeps it in his own Possession; and because there is a common fabulous Opinion, that the other Trees bow towards this as their King.

The Cloves, in general, are cephalick, neurotick and cardiack, proper for the Epilepfy, Palfy, and Vertigo; are good in Wind and Cholick, and are allow'd, especially the Oil, to be the best Specifick in the Tooth-Ach. They are used in Powder. Tincture, Water, Spirit, Oil, &c. The Way to make an Oil by Distillation, is to make a Kind of Putrefaction first, in order to dissolve all the Parts of the Cloves, and to force the volatile Salt and oily Parts more effectually from the earthy Parts, thus: Take Cloves grosly bruised, one Pound; put to them Fountain or Rain Water, lukewarm, two Quarts; cover it with a Vessel close, so as to lute it well; put it into a gentle Heat in Sand for fourteen Days; then put all the Matter into a Copper Vesica, tinn'd within, which cover with its Head and Refrigeratory; add a fit Receiver, lute the Junctures, and distil with an immediate quick Coal Fire, shifting as Occasion requires; continue 'till you have distill'd about two Thirds of the Humidity: This done, and the Vessels being half cold, separate the spirituous Water which swims above the Oil, putting up that into a Glass Vial, which keep close stopp'd for Use: Cohobate the diffill'd Water upon the Faces, and distil again as before, so will you have more Oil, which the first Distillation could not raise, which add to the former Oil, keeping the diffill'd Water also for other Uses.

Or, Take Powder of Cloves, one Pound; warm Water, two Quarts; macerate them for a Fortnight; then put all into a Glass Retort, and distil in a Sand-Heat, with a moderate Fire, so will Oil and Water come over; which separate as before, and cohobate the Water, as in the

former

former Operation; so will you have all that the Clove contains of Oil and volatile Salt, which is cephalick and cordial, befides its other Virtues. It is given from one Drop to three, incorporated with double refin'd Sugar, and mix'd with fome proper Vehicle, either liquid or folid; as in Bolus's, Opiates, Pills, Tablets, or the like, as you see Occasion. It may be also mix'd with Oil of Nutmegs by Expression, to anoint the Temples for the Head-Ach, and the Stomach, to strengthen that Part, and procure Digestion. pretty cephalick Balfam is made with Oil of Nutmegs, one Ounce; Oil of Cloves, one Dram; Musk and Ambergrease, each six Grains; Oil of Cinnamon, ten Drops; Oil of Mace, two Scrupies; mix, and make a Balfam for internal and external Cases.

[The common Clove is the unripe Fruit of the Caryophyllus aromaticus fructu oblongo. Breyn. Prod. 2. 25. Caryophyllus aromaticus India orientalis, fructu clavato monopyreno. Pluk. Alm. 88. The ripe Fruit, the Antophilli of the Shops, are feldom feen. It is a Secret among fome, who deal largely in Cloves, to keep them in a Cellar or other damp Place, where they will swell and encrease considerably in Weight, and look much better, tho' they really are much worse, than before such Management. The other Trees bending to the Royal Clove, is a Tale too absurd to bear any Animadversions.]

# 12. Of the Nutmeg.

Pomet. THE Nutmeg, or aromatick Nut, which the Latins call Nux Moschata, Myristica or Aromatica, is properly speaking the Kernel of a Fruit, of the Size of a green Walnut: We distinguish the Nutmegs into two Sorts; to wit, into the Male or long Nutmeg, and the Female, or round, common Nutmeg.

The Tree that bears the Nutmeg is of the Bigness of the Peach-Tree, and the Leaves have a very near Resemblance to those of the same Tree, according to Dalechamp, except that they are shorter and narrower; after which comes the Fruit of the Size of a Walnut or Abricot. This Tree, according to Mr. Tavernier, is not planted, but grows by Means of certain Birds, or Fowls, which swallow the Nutmegs whole, and throw them out again without having digested them; and the Nutmeg being then cover'd with a viscous and glucy Matter, and being cast upon the Ground, takes Root, and produces a Tree, which it would not have done, if set in the Manner of others.

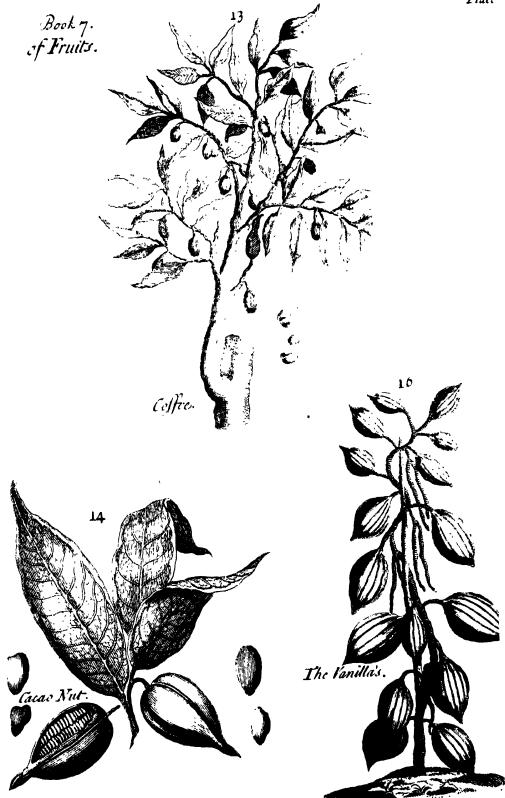
The Nutmeg is likewise a Commodity which none but the Dutch are Masters of, because it grows no where but in the Isles of Nero, Lon-

tour, Pouleay, Rofgain, Poleron, Granapuis, and Dame Island in the great Island of Banda in Asia, and not in the West-Indies, as a late Author says. It is remarkable, that so little a Quantity of Land should furnish all the World with Nutmegt; but it is not hard to be believ'd, when one confiders, that these Isles are so stock'd with Nutmeg-Trees, that it is almost incredible; and besides, they lie in fo good a Climate, that the Trees are always loaden with Flowers and Fruit, and they have three Crops a Year; to wit, in April, August, and December; but that of April is much more valued than those which are got in August or December; and the Climate is so temperate, that the Men live to a hundred and twenty Years of Age, and have nothing to do but eat, drink and fleep, and walk about, while the Women employ themselves in separating the outer Fruit from the Nutmer, drying the Mace, and breaking the Shells wherein is the Nutmeg; being the chief Commodity of the Country, and almost all they live by.

The Nutmegs we fell are nothing but the Kernels of the Fruit, which are cover'd with a hard, thin, and blackish Shell. Without this Shell there is found a covering, which is thin and reddish, of a sweet Smell, and aromatick Taste, and is what we call Mace, but vulgarly, and improperly, the Nutmeg-Flower. After the Mace there is a green Pulpy Fruit, that is of no Use. From this it is to be observ'd, that the Nutmer has three Wrappings, or Coverings; to wit, the Shell, the Mace, and the Pulpy Fruit, and not barely two, as a late Author has observ'd; and the Thing is fo evident, that if any Person will give himself the Trouble to cut a preserv'd Nutmeg in two, he will find the three Parts, about which I have been speaking.

The Trees which bear the Female, or common Nutmegs, grow not but in cultivated, or improv'd Lands; but those which produce the long Nutmegs, grow in Woods and Forests, which makes the Dutch call 'em wild Nutmegs; but they are little used, because they are almost without Taste or Smell, and void of any Virtue, and for this Reason they are seldom brought hither: These Male Nutmegs were call'd by the Ancients Azerbes.

As to the common Nutmegs, we ought to chuse fuch as are heavy, firm, hard, and of a full Plumpness, of a light grey, whose Inside is finely marbled, and reddish, and such as are of a fat, oily Body, which are the Signs of their Newness, and which being grated afford a sweet Flavour, and put into the Mouth, yield a warm, piquant, aromatick Taste. As to the little Hole that is met with so very common in Nutmegs, 'tis a vulgar Error to believe, that that makes them



lose their Virtue; for there is no Nutmeg without it, as may be seen when the thin Rind is raised.

The Use of the Nutmeg is so well known, it would be needless to say any Thing of it, I shall only add, that it is valued in Medicine, and being beat up with Sugar, there is a Powder made of it, which is admirable, taken in warm White-Wine, for curing of Catarrhs and Rheums, that proceed from cold Caufes; and this is call'd the Duke's Powder. The usual Quantity is to put two Ounces of Nutmegs to a Pound of Sugar, and some add Cinnamon. The Inhabitants of the Isle of Banda make a Consection of the green Nutnegs, which is brought to us by the Way of Holland, sometimes with Syrup, and sometimes These are one of the best Preservers without. we have, being very proper to strengthen and invigorate the Stomach, and to restore a natural Heat to Age; but their chief Use is to carry to Sca, particularly by the Inhabitants of the northern Parts, where they are much esteem'd; the People there being great Lovers of these Sorts of warm Sweet-meats.

As to the Oil of Nutmegs, by Expression, that which is brought us from Holland is no better than fresh Butter; for which Reason the Apothecaries ought to make it themselves, rather than buy it at such a cheap Rate, when it is good for nothing. The true Oil of Nntmegs ought to be of a thick Confiftence, of a golden yellow, a fweet aromatick Smell, and a warm, piquant Tafle. The Manner of making this Oil is fo easy, and hath been so long known to every Artist, that it would be superfluous, at this Time of Day, to pretend to teach it; only this may be observ'd, that when it is expressed, it will be liquid and clear; but when cold it coagulates, and becomes yellowish, of a folid Consistency, and that it will yield a double Quantity of Oil this Way, from the same Weight, of any other Spice, Fruit, or Seed whatever. There is likevule another Oil made by Distillation, which is a white, clear Oil, very fragrant, and has double the Strength and Virtue of the Former; and whatever the Nutmer has fingly in itself, is hereby highly exalted; to that four or five Drops is a Dose in any proper Vehicle; wherein it becomes cephalick, agurotick, fromachick, cordial, hepatick, uterine and alexipharmick; good against all cold Difeates of the Mead, Nerves, Womb, &c. expels Winds, and cures griping of the Guts. The Mace this grows, round the Nutmeg has all the same Virtues; Wensles Wind, he ps Con-codion, ester stilled Breaths, strengthens the Cinid in the Womb, thes Fluxes and Vomiting: It is of thinner Parts than the Nutmeg, and therefore more piercing. The Oils, by Expression and Distillation, are made the same Way as those of Nutmegs. Chuse such as has the largest Blades, the highest and freshest Colour, and that is the cleanest you can get. As to the Bark of the Trunk, and the Branches of the Nutmeg-Tree, it is so little used, that it is not worth speaking of, and is soldom brought hither; by Reason of its great Likeness to the white Costus, both in Figure and Taste. Some sell Costus for the Nutmeg Bark, but that you ought to beware of.

Nux Moschata, Moschocaryon, Nux Unguentaria, or Nutneg, is a Kind of Lemery. Nut, or Fruit, of a foreign Tree, as large as a Pear-Tree, with Leaves like the Peach, but much smaller. The Flower is in the Shape of a Rose, of a pleasant Smell; after the Flower is sallen off, a Fruit appears as large as a green Wallaut, cover'd with two Barks; the first, which is very thick, is pull'd off when the Fruit is ripe; the second is much thinner and finer, reddish or yellowish; it is separated from the Nutmeg in order to dry, and is what we call Mace, not the Nutmeg Flower; this yields a great deal of Oil and volatile Salt.

When the Nutmeg is separated from the Barks, they dry and preserve it. The Tree which bears this grows plentifully in the Isle of Banda, where there are two Sorts, the wild and the cultivated, or male and female: The male, which is a long and large Nut, is feldom used: The female, which is the rounder and leffer Nut, is that generally fold in the Grocers Shops. When gather'd, fome fay they are laid in Quick-Lime, in the Indies, for two Reasons: First, that being carried into other parallel or proper Climes, they might not grow, for so in Time it might prove to their Damage. 2dly, that being thus cur'd, the Worm, might not take them. The buft are those of a reasonable Size, fresh, heavy, firm, not spungy, of an Oilyness when grated, and of a pleasant Smell and Taste, not too bitter or acrid. They fortify the Brain, Nerves and Stomach, affift Digestion, expel Wind, provoke the Terms, and reliff Putrefaction.

Chuse your Mace fresh, whole, of a yellow Colour, a good Smell, and agreeable Taste, being a little acrid. It has the same Virtues with the Nutmey, but more exalted, and it acts with greater Penetration and Essicacy. The Mace Bark or Wood of the Antients, is the Bark of the Trunk of a Tree of the same Name, which grown in Barbary, and is thick, reddish, and of a bitter, smart Taste. Its Virtue is assument, and proper to stop the Bloody-Flux, and other Fluxes of the Belly; but this Bark is seldom brought

brought among us; they impose it instead of Mace, tho' the Qualities are different, and so consound the Mace Bark with the true Mace.

[The Tree which produces the Nutmeg and Mace, is the Nux Moschata fruetu Rotundo. Jons. Dendr. 158. Nux Moschata frue Myristica,

Nucissa. Mont. Exot. 9.

What we call Oil of Mace by Expression, is the expressed Oil of Nutmess, brought from the East-Indies in Jars, but this is of late become scarce, because we have from Holland a much cheaper, but much worse Kind of the same Oil.

There is indeed a true Oil of Mace by Expreffion, made in the *Indies*, but it is feldom or never brought into *Europe*; it is express'd from the Mace while fresh, and is sluid, of a reddish Colour, a strong Smell of Mace, and is usually something thicker at the Bottom than at the Top of the Vessel it is kept in.

What is fold in the Shops of our common Retailers of Medicines who call themselves Chymists, under the Name of Oil of Mace by Expression, is a base Mixture of Sewet and Palm Oil scented with a little of the Dutch Oil of Nutmeg by Ex-

preffion.]

#### 13. Of Coffee.

Pomet. Coffe, Coffe, Buna, Bon, Ban, Pomet. or Elkaire, is, according to a modern Author, the Fruit or Berry of a Plant, whose Stalk resembles that of our Bean; but as he is a Person on whom we can have no Dependance, I shall hold with that celebrated Author, Caspar Bauhine, who says, that Coffee is the Fruit of a Tree, whose Berries are brought from Arabia Felix, and that the Tree is like the Spindle-Tree, or Euonymus, and that the Leaves are thick, and always green, of the Shape represented in the Figure, which is taken from the said Bauhinus.

Chuse your Coffee greenish, fresh or new, and that does not smell musty, but whose Berry is of a middle Size; in short, the cleanest, dryest and plumpest that can be had. As to those who buy whole Bales together, let 'em take Care that the Bottom of the Bales be not mouldy, which will spoil and damage the whole Cargo. Coffee is used for little or nothing that I know of, but to make a Liquor with Water and Sugar, which is more or less esteem'd, by different Nations; where it is valued, there is a great Confumption made of it, in the prepar'd Berry; which is done by drying it in an Oven or Kiln, so long, 'till it is well parch'd, or rather half calcin'd, and looks not of an absolute Black, but rather of a dark Purple, inclining to black; if it be well burn'd, and not over high, it has a grateful Flavour; but if over much or too little done, or if afterwards it be ground any Time before it be used, it loses all its Virtue; so that in making Cossee, the Powder is to be fresh ground, and used immediately; for an Hour's Time will pall and flat it, so as it shall lose all its volatile Parts, which float like an Oil upon the Liquor, when sresh; but upon the least keeping, after reduc'd to Powder, its essential Particles are so subtle as to sty away, or be destroy'd by the corrosive Nitre of the Air, which being expos'd to but for a few Minutes, they instantly imbibe.

Caffe, Coffe, or Coffee, is a small Berry, longish and round, like a Pine Lemery. Apple Kernel, of a dark brown Colour;

its Bark is a Kind of Husk that is a little hard and woody; it encloses a Berry as large as a Pea, of an oval Figure, dividing itself into two Parts, yellowish, inclining to white; the Fruit grows upon a Tree of the same Name, which is common in the Arabia Felix, from whence it is transported through all the Dominions of the great Turk, and from Turkey brought to us, as is supposed, cur'd, that it may not be planted in other Countries.

It is of an excellent drying Quality, comforts the Brain, and dries up Crudities in the Stomach: Some Author fays, it cures Consumptions, Rickets and Swooning Fits; it helps Digestion, eases Pains of the Head, rarifics the Blood, suppresses Vapours, gives Life and Gaiety to the Spirits, hinders Sleepiness after Victuals, provokes Urine and the Courses, and contracts the Bowels; it is an excellent Dryer, fit for moist Bodies, and most Constitutions, but that of young Girls, subject to the Green-Sickness; and likewise is prevalent in fuch as are apt to have running Humours, Sores, or King's Evil upon them: It prevents Abortion, and confirms the Tone of the Parts drunk after eating; but with this Observation, that this Liquor be always made fresh; for if it stands but two or three Hours, it will be pall'd and grow naught. It is an effectual Remedy against Worms in Children; so that if the Mother drink but frequently of it, when with Child, the Infant shall not be afflicted with Worms, during its Infancy.

[The Tree which produces Coffee, is the Jafminum Arabicum Castaneæ solio store albo odoratissimo cujus fructus Coffe, in officinis dicuntur. Com. Pl. Us. 85. Bon Arbor cum fructu suo Buna. Park. 1622. It is a Native of Persia and Arubia Felix, but is now become common in the Gardens of the Curious, and flowers and bears its Fruit with us; it grows to about six Foot high, the Leaves are like the Bay Leaf, but longer, the

Flowers

Flowers pentapetalous, and the Fruit like Bay Berries within; which is the Coffee we use.

The greatest Part of the Coffee we sell, is brought to us from Mocha.]

# 14. Of the Cacao, or Chocolate-Nut.

THE Cacao is the Fruit of a Tree which grows in the Indies, of the Pomet. Bigness of the Orange-Tree, but with Leaves longer, and more pointed; the Flower is large and yellow, which when fallen, leaves long, lanuginous, green Filaments, from which grow pointed yellow Fruits, which, as they ripen, become of the Size of a Melon; each of these Fruits contains twenty or thirty Kernels, as large as Pistachia Nuts, and sometimes there are as far as fourscore Kernels in one Fruit. Each of these is cover'd with a yellowish Pellicle, which being taken off, there appears a tender Substance, divided into several irregular Parcels, of an oily rich Taste, leaving something of a Sharpness behind them in the Mouth.

Wormius, in Page 191 of his Book, makes mention of four Sorts of Trees which bear the Cacao Nut; the first and second whereof are call'd Cacabuaquahuitl, the third Xuchicacabuaquahuitl, the fourth Tlacacahuaquahuitl; which Account agrees very well with the four Sorts of Cacao we fell, which certainly come from different Trees; the first and best Sort are call'd the large and finall Carack, from the Province of Nicaragua, from whence these Sorts of Cacao's are brought: The third and fourth are call'd the large and small Island Cacao's, because they come from the American Isles, as St. Domingo, &c. The most valued of the four Kinds of Cacao's is the large Carack, especially for making Checolate, which is their chief Use; for the small Quantities that are e it of them as they come over, are not worth fpeaking of; they ought all to be chosen fresh, plump, weighty, blackish without, and of a deep red within, well tafted and not of a musty Smell: The finall Carack is as near approaching to the Qualities of the large as can be. As to the Island Cacao, especially the large, the nearer it comes to the Carack, the better it is. Some Authors fay, that the Cacao is in such Use in Mexico, that it is the chief Drink of the Inhabitants of the Country, and that they give it as Alms, or Charity to the Poor: The other Sorts also that come from the Isles, are ground to make Bread of different Sizes. for the Use of different Sorts of People.

The Cacaos, or Cacao, is a Kind of Lemery. Almond that is made the Basis or Foundation of Chocolate, and from whence it takes its Name.

It grows in all the Spanish West-Indies, Guatimala, Hispaniola, Cuba, New-Spain, Jamaica, &c. in hot, but shadowy Places, being planted in Ranks and regular Walks, shady Plantanc-Trees are rang'd with it; the one to shelter the other, lest the parching Sun, by its excessive Heat, should kill it, or the boisterous Wind injure it. This Cacao-Tree, not exceeding our Cherry-Tree for Bigness; as it is a Tree of singular Beauty, having large, broad, oblong, green Leaves, which fall back, and hang like fo many Shields, to preserve and desend the tender Fruit: so it is a Tree of great Profit to the Owner, arising from its most desirable Fruit, which grows after an admirable Manner in Cods; studded, as it were, in the very Body of the Tree, as well as the Arms and Boughs, from the very Earth upwards; each Cod containing about thirty or forty Nuts, regularly fet in a Mass of soft, slimy Pulp, to preserve, as well as nourish, the tender Fruit. The Nuts, among the Indians and Spaniards, go for current Money, even in those Countries where Gold and Silver are naturally produced; there is in them Food and Raiment, Riches and Delight all at once!

The Cod is faid to be very like the Pear or Pear-fashion'd Gourd. Each Nut is about the Bigness of an Almond Stone, and cover'd with a thin Shell, blackish without, containing within a brownish red, or almost Chefnut-colour Kernel, with brownish Ash-colour'd Veins, which to the Indians is pleasant in Taste, tho' not altogether so to us. The Cods being gather'd, they break them, take out the Nuts, and lay them upon Mats to dry in the Sun, 'till the Moisture within them be consum'd, and then keep them both for Meat and Merchandize.

This Fruit is cooling, as may eafily be discern'd by their cold nitrous Tafte. They open Obstructions, restore in deep Consumptions, stimulate to Venery causing Procreation and Conception, facilitate Delivery, preserve Health, help Digestion, make People inclinable to feed, eafe Coughs of the Lungs, Gripings of the Bowels, and Fluxes thereof, cause a sweet Breath, and assist in a Disficulty of making Urine. The chief Use of them is in Chocolate, which is fo well known, there needs no longer Discourse about it.

[The Cacao is the Fruit of the Arbor Cacavora. Pif. Mant. A. 197. Cacava Quavit five Arbor Cacari Cacavifera. Hern. 79. It is cultivated in Cuba, Jamaica, and other Parts of the West-Indies. It is a tall Tree, with a smooth even Bark, the Leaves are long, smooth, and pointed, and the Flowers pentapetalous, and of a very

beau iful yellow.]

# 15. Of Chocolate.

WE fell several Sorts of Checolate, which have no other Difference Pamet. but according to their Fineness and Goodness, the Drugs that compose them, and the Countries where they are made. But the best Checolate, and the finest, is what is made with the largest Carack Nut, and wrought up with the finest Sugar, good Cinnamon, and the purest and best Vanillas: In short, what is made by an honest Man, who understands how to prepare it, and will neither spare Labour nor Cost; it is imposfible to afford good Ghecelate at a low Price; and the most of those who sell their Chocolate at such easy Rates could scarcely buy the fine Sugar they ought to make Use of at the Price. Although forme still cry up the West-India, Spanish, Portugal, and St. Male's Chocolate, at this Time there is no Place in the World where they make better Cherelate than at Paris. I did not think it proper to give you the Composition here, since there are fo many Books that treat of it, and the Compositions are fo various, that every one is for pleafing his own Fancy. Nevertheless, I cannot forbear acquainting you with what is proposed by the Sieur Blegny, in his Book, who mentions the Flower of Orejeuclas, to be added to the Compofition, because it is a Drug which I believe to be imaginary, as not being able to know what it was, after the most diligent Search I could make. And the Sieur Blegny, who calls himself the Author of that little Book which I have just mention'd, had Reason to say he could not meet with it among the Druggists; for he could not give me any Account of it. When I ask'd him, before a certain Person, what the Orejevalla Flower was? he told me, it was what went into the Composition of the American or Indian Chocolate, which I suppose was what he had read somewhere. As to the Achietl, that is nothing else but what we call the Rocou, which is not made, as the faid Author fays, but as it is let forth in its proper Place in this Treatife; and if he had known that the Achiell was the Rocou, there are very few Grocers but could have furnish'd him with it; so that he needed not have put it in his Book, that he could not meet with it at the Druggists.

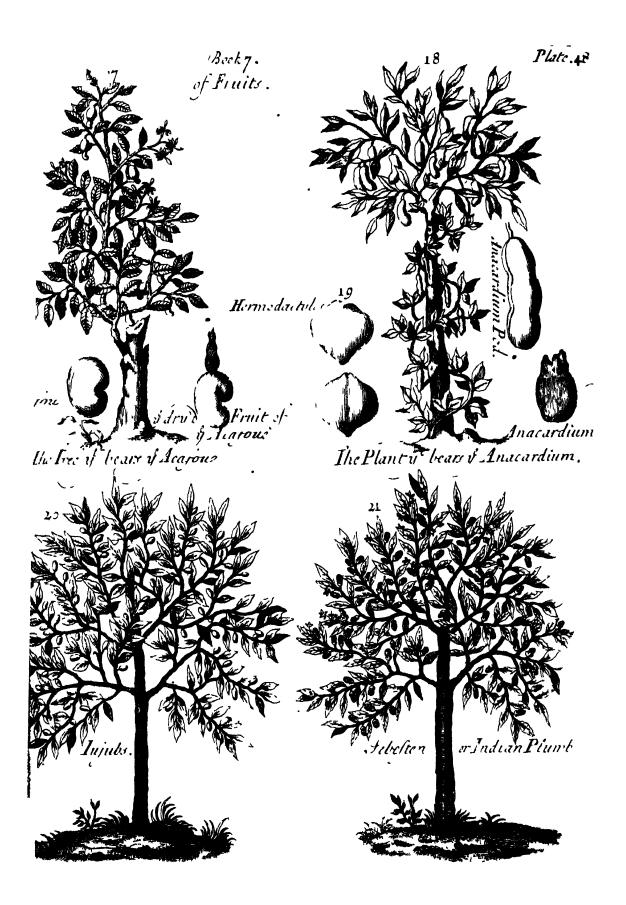
[Chocolate is made by attenuating the Oil of this Fruit by Heat; and, according to the different Degree of Heat, used in the making it, and the Spices'mix'd with it, it is seen to have very different Effects in heating, or in only nourishing and strengthening. The best and nucest Judges are of Opinion, that the two Kinds of Cacao, mix'd together, make the finest Chocolate. The Orejeuclas

Flower, which our Author thinks an imaginary Drug, is the Flower of the Xochinacafthe few flos Auricules, Hern. 30. R. Hift. 2. 1671. Orejeuclas few Orichelas, Hughes. Fruetus oblongus cineraccus acidulus, C. B. Pin. 406. It grows in New Spain; the Flower is very fragrant, and is there used sometims in Chocolate.]

#### 26. Of Vanilla's.

THE Vanilla's, according to the Sieur Rousseau, are Pods of about half a Foot long, of the Thickness of a Child's little Finger, which hang upon a Plant of twelve or fifteen Foot high, that climbs like a Creeper; for which Reason it grows most frequently along Walls, or at the Roots of Trees, or some other Kind of Props, or the like, whereby it may be fupported. The Plants have round Stalks, difposed in Knots like the Sugar Cane; from each Knot there put forth large thick Leaves, about a Finger's Length, which are green, of the Colour of the Stalk, and very like those of the great Plantane, after which come Pods, which are green at first, yellowish afterwards, and grow browner as they ripen. When they are ripe, the People of Mexico, those of Guatimala, and St. Domingo, gather them, and hang them up by one End in the Shade to dry, and when they are dry enough to keep, they rub them with Oil, to hinder them from drying too much, and prevent their breaking, and then they put them up in little Bags, of fifty, a hundred, or a hundred and fifty, to bring them hither. Nevertheless, there are some who value their Gain more than their Conscience, who let them hang upon the Stalks 'till over-ripe, and receive from them a black fragrant Balfam, that flows 'till the effential Parts of the Vanilla are exhausted, and it can run no more; and then they gather the Pods, and pack them up for Sale, as aforefaid.

The great Lords of Mexico are mighty Lovers of these Plants, as well because of the pleasant Smell of their Fruit, as they mix it plentifully in their Chololate, as because of the great Profit they yield them in Trade. The Spaniards bring us this rich Commodity, and give it the Name of Vanilla, which signifies a Sheath, because the Pod resembles the Figure of a Sheath. It is of a pleafant Taste and Smell. Chuse such as are well fed, thick, long, new, heavy, not wrinkled, or rubb'd with Balfam, and which have not been kept moist, but are of a good Smell; and beware of those that are small and dry, and of little Smell; the Seed which is very little, is black and shining. The Vanilla's are much used in France for making up Chocolate, and fometimes



to perfume Sauff. Some fay they are good to firengthen the Scometh. As to the Bulfam, the

from then the Stomosch. As to the Palfam, the Spaniards keep that, for we have most of it brought to us.

Finally, it., Failly, 18 a. Ped; of Lemery. About half a Foot long, and the Talian their of a Child's Finger, and the Talian half of a back. Colour, is defined ballamick. Tafte and Smelly a little and the Foot is the Fruit of a kind of south of a little and the Foot is the Fruit of a kind of south of a little and the Foot is the Fruit of a kind of south of a little and the respective for a flant of four or five Foot high, which the despite about the neighbouring or adjacent Trees, using Poles, or climbe upon Walls. The Lement semile those of Plantane, but they are high and more fleshy. The Flowers are blacking this Flant grows in Mexico, where the Bulleting call is Tlinschitl, and the Poll Mecafuthil. the Pol Mecafutbill.

Chufe fuch Vanillas as have the longest Pods, pretty thick and heavy, well fed, of a good Tafte and pleasant Smell. It wilds a great deal of Oil and volatile Salt; is cordial, cephalick, ftomachick, carminative, aperitive. It attenuates vifcous Humours, provokes Urine, and Womens Courses; is mix'd, in Checolate, and makes it

agreeable both to the Tafte and Smell.

The Vanelloss are the Pods of the Volubilis filiquosa Mexicana folis plantaginis, R. Hist. V. 2. p. 1330. The Plant grows in New Spain, and other hot Countries; the Pod it flat, and contains .. Multitude of small Seeds: Its principal Use with us is as an Ingredient in Chocolate.]

# 17. Of the Acajon,

THE Acajeut, or Coffee Nuts, or West-Indian Anagerations, are the Pomet. Fruit, or rather the Seeds of a yellow Fruit, inclining to red, of the Size of a Magdalen Pear, or an Orange. The Tree which bears these is, according so the Sieur Rouffeas's Leaves, five or fix Fost high, adorn'd with Leaves of a yellowish Green, and something of the Shape of the Ivy. The Flowers are small, and grow in Tufts, of a Carnation Colour, from whence comes a yellow Fruit, as said before; at the Bottom of which are placed the Seed, of the Bigness of a Chesnut, of the Shape of a Kidney, and of an Olive-Colour, and confifting of a white Keinel cover'd with a tough Skin; which, after it has been roafted, like a Chefnut in the Fire, is plenfant to eat. There is contain'd befiles the Kernel of thek! Accipute, a black cau-flick Oil, which is a good Remedy to cure Corns upon the Feet, and take away red Spots in the Face.

The Americans cut the yellow Fruit in Slices, and eat it with Sugar, as we do a Lemon; as well to revive the Spirits as to cool them; they are full of a well-tafted Juice. Chuic fuch Acajous as are large and new, of an Give Goleur, with white Kernels, which are certain Signs they are fresh, and not of a Chefnut Colour, which is a Token of their Age and over Ripenes.

The Cashew Nut is the Seed of the Fruit of the Anacardus Zeylanica folio nuns Juglandis, Hern. Mus. Zeyl. p. 55, in larges to the Bottom of the Fruit.

of the Fruit.

The Juice of the outer Rand is of four Use to take away Freckles, and the Kernel is tatable; but it is very little known as a Medicine,]

#### 18. Of Anacardiums.

THE Anacardium is a Kind of a Fruit, brought from the East- Pomet. Indies; the Tree which bear it has greenish Leaves, that are roundish; after which come Pods, of the Size of the large Rean, in which are usually inclosed two Anacardiums; which, when half ripe, are of the Colour of buint Coffee; but when full ripe, they are of a shining Black. Chuse such as are large, well fed, new, dry, and have in them a white Kernel. They pretend that the green Fruit of these are a dangerous Posson, but otherwise when dry: After they are prepar'd in Vinegar, they become a good Purgative; but nevertheless they ought not to be meddled with, without the Advice of an able Phy-They yield an Old like the Cashen Nut. which has the fame Virtues.

Anacardium is a Kind of large Fruit. like the Chestitut, being in some Meu- Lemery. fure of the Shape of a Blad's Heart, whence it derives its Name: It is of a thining, black Colour, containing in it a white Kernel. This Fruit grows on a Tree in the Indies, whose Leaves are almost round, and the Bruit in Pods, of the Size of a Windfor Bean; holding each, not above two Anasardiums, which afford Oil, and are fold in gerat Plenty; they rarify and purge the pituitous Humours; are resolving; refresh the Brain, and strengthen the Memory, being taken in Decoction.

These are the Fruit of the Abor Indica fruttu conoide, Cortice pulvinata, nucleum unicum, nullo ossiculo tectum Claudente, R. III. V. 2. p. 1566. It is a warm cordial Medicine, but is very little taken Notice of in the present Practice, and rarely to be met in our Shops.

#### 19. Of Jububs.

THE Juhubs are the Fruit of a Tree Poince. Which grows commonly in Provence, but chiefly in the Gardens of Hyeres, near Toulon, where it is in such great Quantities, that almost all we fell comes thence by the Way of Marfeilles: The Tree that bears them is of a moderate Height, and the Leaves are greenish, thin and fibrous; after which comes Fruit, of the Bigness of one's Thumb End; green at first, and something reddish as they ripen.

Chuse your Jububs fresh, large, well fed and fleshy, of a good Kind, that have been well dry'd, that they may keep without Danger of rotting; and take Care that they be not kept in Places too moist, or gather'd when they are too ripe, for that is the Way to lose them all: They taste, when gather'd, and rightly manag'd, like Raisins of the Sun, with one Stone, like a Prune Stone, in the Middle. Dodonæus saith, they are of two Sorts, viz. the Red and White; and the Red are of three Kinds, to wit, Jujuba major, Jujuba minor, and Jujuba Agrestis; the first, which grew originally in Africk and Egypt, and were thence transplanted into Italy, France, &c. are those which we chiefly use, being moderately hot and moift. This Plum is an exellent Pectoral, and opens the Body, temperating the Sharpness of the Blood and Humours; it expectorates tough Flegm, and is good against Coughs, Colds, Hoarfenels, Shortnels of Breath, Wheezings, Roughness in the Throat and Wind-Pipe, Pleurifies, Heat of Blood, Exulceration, or Excoriation of the Kidneys and Bladder, cleanling them; and by their mucilaginous Quality, making the Passages slippery: They are used, in a Decoction, for Stone, Gravel, &c. or for opening Obstructions in the Liver, Spleen, Dropfy and Jaundice, by Urine.

fujuba, or Zizipha, a large Fruit of Lemery. the Ziziph Tree, is like a moderate fiz'd Prune or Plum, oblong or oval, red without, yellow within, fleshy and tender, of a sweet and vinous Taste, having a tough Skin, and a hard, strong Kernel: The Fruit grows upon a Tree call'd Ziziphus, by Tournefort, and wants little of the Plum-Tree in every Respect; but is crooked, cover'd with a rough uneven Bark, that cracks or splits: The Branches are hard, surnish'd with strong Thorns; the Leaves oblong, something hard, terminating in a blunt Point, of a fine, thining, green Colour, slightly indented on their Sides; the Flowers growing among the Leaves, being ty'd by short

Stalks, each of which, according to Mr. Tournefort, is commonly composed of five Leaves, like
a small Rose, which is placed in the Middle of the
Cup, of a grassy or pale Colour: When the
Flowers are gone, the Fruit, or Jubus, succeed; being green at first, and reddish as they
ripen. This Tree grows in the hot Countries,
and is very common in Provence, and in the Isles
of Hyeres, near Toulon, from whence the dry'd
Fruit are brought. They are pectoral and aperitive, being usually employ'd in Ptisans for Diseases of the Breast; they sweeten the Sharpness
of the Humours, by their sweet and glutinous
Substance, and provoke Spitting.

[The Jujubes are the Fruit of the Jujube arabum, five Zizyphus Dodonei, Ger. 1318.

They are effected warm and moiftening, and are recommended in Stranguries, &c. but are at present little used.]

#### 20. Of Sebestens.

Sebestens are a blackish Fruit, that are brought by the Way of Mar-Pomet. feilles, from the Levant, &c. The Tree that bears this Fruit is about the Height of

our common Plum-Trees; the Leaves green, and almost like them, but that they are a little rounder: The Flowers are whitish, in Form of a Star, from whence comes the Fruit, about the Size of one's Finger's End; it hangs to the Branch by a little white Cup, as it is brought to us.

Chuse your Sebestens fresh, plump, moist, and full of Pulp, of a black brown Colour outwardly, adorn'd with white Caps, which is an essential Sign of their Newness, and such as have neither been wash'd nor rubb'd; the sweet, viscous, and sleshy; therefore reject such as are otherwise, and whose Caps are gone, which is a Token they have been wash'd or rubb'd; and also take Care not to chuse those that are hard, sinall, and of a reddish Colour.

The Way of using the Sebestens is much the fame as that of the Jujubs, and their Virtues alike, so that one is frequently used for the other. The Egyptians make a gluey Sort of Birdlime of this Fruit, which is call'd Alexandrian Birdlime; but as this seldom comes amongst us, we use that which is made in feveral Parts of France, in Normandy, and about Orleans. This Birdlime is prepared from the Holly-Tree, steep'd in a Pond or Pit, and afterwards beat together in a Mortar, 'till it is reduced into a Paste, and then well work'd with the Hands, and wash'd in Water; it is put up in Barrels, to be sent to several Parts: The Choice of it is, to take such as is the greenest, the least feetid, and freest from Water that can be got; the Use of it being to catch Birds, and other Creatures of the like Nature.

Schroder fays, the Plums of the Sebesten-Tree are small, with a three-corner'd Stone; temperate in respect of Heat, and moist, soften and prevent, or allay the Acrimony of Humours; are used chiefly in Defluxions of Rheum, Obstructions of the Belly, and quench Thirst, You may make a Decoction of them with Wine and Water, to move the Belly gently to Stool; or make an Electuary of them thus: Take Sebestens without the Stones, Prunes ston'd, Pulp of Tamarinds, of each five Ounces; Violet Water two Pints; Juice of the Herb Mercury, clarify'd. four Ounces; Sugar Penids half a Pound; of the four greater cold Seeds, blanch'd, of each two Ounces; Diagridium three Drams: Boil the Sebestins, Prunes and Tamarinds, in the distill'd Water, which being dissolv'd, mix with the Juices; then add the Penids and Pulp of Prunes, which being dissolved also, mix the Diagridium and make an Electuary. It purges, and carries off the Sharpness of Humours, and provokes to Urine.

Sebestena, or Prunus Sebesten, is a Fruit of the Size of a small Acorn, that Lemery. is oblong, roundish and black, wrinkled as a little Prune, of a sweetish, viscous, or clammy Talte, cover'd at the upper End with a finall woody Cap, of a whitish Grey. The Fruit grows upon a Tree of the same Name, resembling the Plum-Tree, only that the Leaves are a little more indented; the Flowers are small, white, and like those of the Geranium. This Tree grows in Syria, Egypt, &c. Make choice of your Fruit according to the Directions given by Pomet; they contain in them much Oil, and some effential Salt; are moistening, emolient, sweetening, pectoral, and serve to open the Breast, cleanse the Reins, provoke Spittle, and relax the Bowels.

[Scheftens are the Fruit of the Myxeis Domestica. J. B. 1. 198. Prunus Sehestina Domestica. Jons.

Dendr. p. 85.

The Tree is common wild in Egypt and Asia. The Fruit is emolient, and recommended to blunt the Acrimony of the Humours; but is very little now in Use.]

#### 21. Of Dates.

Pomet. THERE are three Sorts\* of Dates which we fell; the best are those which grow in the Kingdom of Tunis. There are some that come from Sally in Africa; but they are lean and dry, and differ much from those of Tunis, which are fat and sleshy. We have others that are brought from Provence, which

fell well, being large, fleshy, fair without, and white within; but these are very subject to damage in keeping. The Tree that bears this Fruit is the Palm, which is so well known throughout the whole World, it would be unnecessary to describe it.

Chuse such Dates as are large, full and sleshy, of a golden, yellow Colour without, and white within; the Taste sweet and pleasant; let the Pulp be firm, white about the Stone, and reddish towards the Bark; of a Malaga Wine-like Tafte, and fuch as, being shaken, make no Noise: If they are small, hard, without Pulp, or rattle, they are naught: Those of Tunis are worth much more than those of Sally or Provence, as observ'd before. Dates are so common, in some Parts of the World, that they ferve for the daily Subfiftence of more than an hundred Millions of Souls; but for medicinal Uses, they are not much employ'd, saving in the Diaphænicon, some pectoral Ptisans, with Sebestens and Jujubs, &c. besides which, they are frequently eat as other Fruit.

Dastyli, or Frustus Palmæ, the Dates, are an oblong, roundish Fruit, Lemery. a little larger than one's Thumb, sleshy,

of a yellowish Colour, sweet and agreeable to the Palate, being closed in a long, round, strong, hard Nut, of an ath-colour'd Grey, cover'd with a little, thin, white Skin: They are brought chiefly from Tunis in Barbary; where they grow upon a large Tree, called Palma Major, or Palma Dactylifera, whose Trunk is large, round, streight, high, cover'd with a thick Bark, rifing all the Way, with feveral scaly Knots, which make it advantageous to climb; the Leaves only grow at the Top longwise, pointed as those of the Flowerde-Lis, spiring, and opposite one to the other, about four Foot long, and as thick as one's little Finger; triangular, hollow, spungy, and bending Archwise; the Flowers are white, and grow together on a Cluster, like a Bunch of Grapes, and are succeeded by the Dates; which, when ripe, ferve for the Food, or Supply, of vast Numbers of People in the Indies, Syria, Africa and Egypt; but what are brought hither, ferve only for phyfical Uses, being deterfive and something aftringent; they allay the Acrimony of the Stomach, strengthen the Factus in the Womb, moderate the Scouring of the Guts, and are cooling in inflammatory Fevers: They are reckon'd peculiarly ferviceable to destroy all tartarous Mucilage, and other gross Humours, that breed the Stone, Gout, and Rheumatism.

[Dates are the Fruit of the Palma vulgaris, Park. 1543. Palma major, C. B. Pin. 506. Palma Dastylifera major vulgo, Hern. Par. Bat. Pr. 366. It is common in Egypt, and other hot

Countries.

Countries. Before the Fruit is ripe it is some- Trees which bear them, but shall only say, that thing aftringent, but when thoroughly mature it they are different forts of Palm Trees; but as for is in the Parare of the Fig, and semetimes used in many Authors have treated of them, I shall add Cattolasms, as Figs are; but they are seldom seen in manufactures. The middle-size Gazer, which in Professions at profess. in Prescriptions at present.]

22. Of Palm Oil.

PAlm Oil, or Oil unchious Liquor, as Pomet. ter, of a gold colour'd Violet or Orrice Smell, especially This Oil is made E and right. Expression from the Kernel of the by Clusters, of the Size of which produces this, is a Sort of Police common in Africk, especially at Sensy Tame lin Brafil. The Africans make this Oil iff Manner as they make Oil of Bay-Berries at Calvission in Languedoc; and it serves there to each as we do Butter : As to that which is old made. they burn it in Lamps.

Chuse your Palm Oil fresh and new, of a good Smell, and sweet Taste; so that it be as pleasant and grateful as the best fresh Butter we have, "and of the highest Colour you can get. The white of the highest Colour you can get. The white Colour it acquires by Age, has made some People sansy that the Palm Oil is white it also care you do not buy had as a chapoung of Wax, Oil Olive, Orrico and any of the same of the Seller had been as a chapter of the Seller had been as the same of th appens They use this

course by individual and the state of the Palms Guinea, the state of the Palms Guinea, the state of the Palms Guinea, the state of the

23. Of Cold Nuts

Pemet.

THESE are Fractiff various Sixes

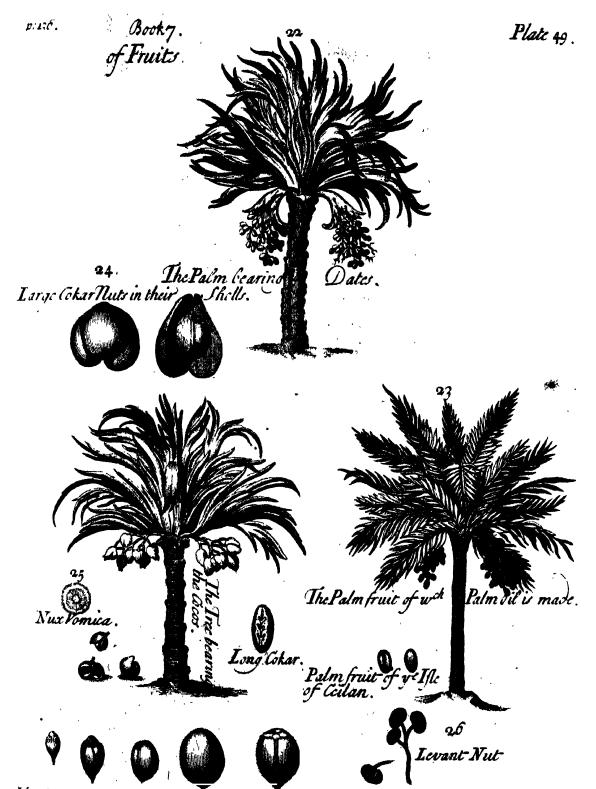
and Shapes, referenced in the
Figures of them, which are engrav'd

from the Original which Ishave in my Hands. Pemet. They are proper for several Souts of Works; as Bowls, Beads, Snuff-Bowls, Ge. The Place in Europe, where they trade most in these Kindgof Fruit, is at Dieppe. I shall not here describe the

tore. The middle line Grees, which the Antille Ylands, make a confideration furnish the Workmen with contracts, that deal in Boads and Snufffer Sort is of fuch valt Ule in Af-Ageral other Parts of the World. Means of it only, Necessaries of Life; which Mecessaries of Life; which Detail of, it would swell great a Bulk. There is anomuch more scarce, which J. Bau-Nun Midica ad Venena celebrata; seve Lighton; the Indian Nut, famous against the Maldive Nut. I have one of these. fers from the common Kind, in that it is The light virtue special and has a browner to light the light virtue special and has a browner to light the light virtue special and has a browner to light the light virtue special and the light with the Cohar-Nut street has plentfulless. New John Light West and Light L

the East-Indies. high, having on its Top a Tust of Palm-like Branches, of a most beautiful Figure, bringing

Branches, of a most beautiful Figure, binging forth monthly Clubing of very lates Nuts, containing within a sery larged certel, which cats as pleasant as an American with a milky Juice, which is dramb to grand the series with a very hard. Shell, of state, in the Colour, abating all preternatural, and irregular Heats. The Branches of the Trees being cut, yield a pleasant I turn which being ditill'd, gives a frong Aque the Koull, beindes as ferving for Manage y Explains and the which is better than my Oil Oliver flot inferior to the best Oil of Sweet Aldmonds. Of the Branches they maked



okar Nuts of diverfer lizes without The Maldive Nut:

the coarse Hards, on the Outsides, their Cables; and of the finer Stuff, Sails for Ships, and Cloth, as aforesaid.

[The common Coco or Cocker Nut is the Fruit of the Palma Indica ancifera Coccus dista, R. Hift. 2. 1356. Palma five new Indian velocity forms Coccos, Park. 1596. This grows both in the East and West Indies.

The Maldive Nut is the France of the Caccar to Maldiva five nux Indica and Patents exhibites, R. Hult. 2. 1359. Palma Caverfare figure Occasi, C. B. Pin. 509. This grows only in the Last Indies, and has the Character of a very great Medicine in Palfies, Epilepsies, &c. besides its Virtues in residuing Pontons, but is little us'd at present.

#### 24. Of the Vomiting-Nuts.

THE Vomiting-Nuts are round flat Nuts, of the Size and Shape reprefented in the Figure; they are of a greyish Colour on the Guidide, and being slit in two, are of divers Colours, as yellow, white, brown, &c. within. These Nuts, according to the Relation of some Persons, are the Kernel of a Fruit of the Size of our Rennet Apples, which grow upon a large Plant in several Parts of Egypt, from whence come the Vemiting-Nuts we now fell. The best Relation we have of the Growth of them, as well as their Description, is given by Mr. Paul Hermans, Phylician and Botanist of Leyden, one of the most able Men of his Age. This Relation of his has a great deal of Analogy with what I have faid of them, except that he fays they grow in the life of Ceylen, which may be, and yet they may also grow in Egypt, for every Body knows the same Fruit may grow in several different Places. He says likewise, that there is another Sort of Nux Venica, which comes from the Isle of Timer, and that the Fruit is four Times smaller than that of Ceylon; and that the Plant is called Lignum Colubrinum.

They are brought from Egypt, the Levant, and Eust-India, and are generally flat, round, and of the Thickness of a Crown Piece, almost like Lupins, but larger, hollowish on the one Side, and a little bunch'd round on the contrary; of a greyish Colour, with a kind of Freeze, or fost Cotton, covering the whole; but of so hard and horny a Substance, that it cannot easily be beaten into Powder, but must be grated, or ground in a Horse-Mill: The chief Use of them is to infatuate Birds, as Crows, Ravens, Pigeods, &c. It is said it will kill Dogs. Cats, and other Creatures, if it be given mix diwith their Mint: And it is probable, that if it kills not such Creatures as Wolves, Foxes, Tygers, &c. yet' pos-

fibly it may fo stupify them, that they may the more easily be master'd and kill'd by Mankind: It is also mix'd with Paste, and given in a Bait to catch Fish withal. It has been given inwardly, to three or four Grains, for several Intentions, but is much better let alone, since there are so many Remardles that may be used with less Danger.

New Fornica is a little flat Fruit, as round as a Farthing, downy or lanugi-Lemery, from, of a greyth Colour, hard as Horn, of various Colours within, sometimes yellow, sometimes white, and sometimes brown: Some People believe this to be the Kernel of a Fruit as large as an Apple, that grows upon a great Plant in several Parts of Egypt; but the Truth is, no Body as yet truly knows the Origine of the Vomiting-Nut, and there is nothing to be depended on in the Histories concerning it. Chuse such as is large, clean and new; it is entployed chiefly for intoxicating of Birds and Fish, though it is not poisonous if given to Men, but may be used in small Quantities; and is reckon'd deterfive, drying, resolutive, being applied externally and internally: It is commended as useful to relift Poison, and drive away Melancholy and Vapours by Perspiration.

[The Nux Vonica is the Seed of the Nux Vonica major et Officinarum. Par. Bat. Prodr. 357. Malus malabarica fructu cortice Amaricante semino plano compresso. R. Hist. 1662. Solanum aboreum indicum maximum foliis Anoplia sive Napeca majoribus fructu retundo. Breyn. Prodr. 2.02.

The Lignum Colubrinum is the Root of a finaller Species of this Plant, as mention'd before in its proper Place.

It is probable that the Nux Venuca becomes a Poisson by its extreme Bitterness, which must make an insupportable Impression upon the nervous System, as we find all bitter Drugs are poissonous to some Kunds of Animals, and even Bitter Almonds to Buds.]

# 25. Of the Coculus Indus, or Levant Nut or Berry.

THE Berries which we fell by the Name of the Levant, or Eastern Poince. Berry, are a small Fruit, of the Size of a good large Bead, roundish, and something of the Shape of a Kidney, as you will see represented in the Figure. They are of a reddish Colour, and hang to the Plant which bears them, by a little Stalk of the same Colour. In these Fruits is found a little Kernel, which is divided into see the colour.

veral Parts, very subject to be worm-eaten, and the greatest Part of these Fruits come to us, for that Reason, empty; therefore chuse those that are heavy, fresh, the highest colour'd, largest, and least fill'd with Dirt that may be; they are serviceable to destroy Vermin, being usually mix'd with Stavesacre, "Some Authors also say, that they will intoxicate Fish, so that they may be

easily taken.

There is another Fruit call'd the Fagara of Avicennia, which is almost like the Levant Berry, or Cocalus Fasses, and whose Figure is shewn with that of the Date, of which there are two Sorts. The first is to like the Cocalus Indus, that if it were not for a thin greenish Covering that it has, it would be hard to distinguish them. The second is of the Figure and Size of a Cubeb, of a brown Colour, and aromatick Smell, and the Taste a little bitter and piquant; both partake of the Nature of the Cubebs, being good to strengthen the Stomach, assist Digestion, and expel Poison.

Some Authors call the Lorent Nut, or the Coculus Indus, the Basca Orientales; they are
Berries brought from the Raft-Indies, as also
from Turky; round, and a little larger than BayBerries, hollow within, and of a brownish Colour, or rather blackish-ash Colour on the Outside, having a white Karnel within, and of a hot
Taste, drawing Water into the Mouth; and as
is reported, grow many together lake by Berries,
yet each by itself on a Stalk. Some will have
them to grow on a Kind of Night shade, others
on a Kind of Tibyynal or Sourges, but the Truth
is scarcely yet known: They are chiefly used for
Baits to catch Fish withal, or in a Powder to kill
Lice and Vermin in Children's Heads.

[The Cocculus Endus is the Fruit of the Salanum racemofum Inditum artisticous, Cocculus India Verens.
R. Hift. 123. Arber india Coculus indicat forens.
Breyn. Prodr. 2. 10. It is common indialabar. Four Grains of this Fruit taken inwards of the Hick-ups, Natilea's and Familian wards of the Dose is poisonous. The Powden minute with Flour and New Charle, intoxinated file 2, that they may be taken with the Field. There is provided atting such Fish; but Expensence has provided that they apprehensions are without Foundation.

The Fagara is the Cubebit Affinis Fagara mafor, C. B. Pin. 412. Fagara for Caystona Lutions. Com. Syll. 14. These are brought to us from the Philippine-Islands; but seldom used in Madicine.]

26. Of Collia.

Pemet. E have four Kinds of Cussia, That of the Lauant 2. That of Egypt. 3. That of Brazil, and

4. The Island Cassia: They are all the Fruits or Pods of different species of the same Tree, which have Leaves some longer some shorter, and yellow Flowers. The hist and most esteem'd is that of the Leaves. This Cassia grows plentifully in several Parts thereof, from whence it is now brought by the Way of Macsielles. The Leaves of this are green, and the Flowers yellow.

of this are green, and the Flowers yellow.

Chuse this Casis fresh, in thick Pieces, that are heavy, not hallow, of a brown Colour, whose Bark appears the and white within, and such as is surainty with a black Pulp, and a white hard Stone or Kernel with a Heart. This Pulp ought a black Pulp, and a with the flare or musty, and the as will easily separate from the Pod, heware that the Pods be not knotty or crooked, but even, and such as will not shake or rattle. Some without it, that the true Way of distinguishing the Levant Cassia, is by a Right that the such that the such that the pods; which nevertibles is no general Rule, because there are Possiving the Levant frequently met with in the Antiers, or Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Antiers of the Mark frequently met with in the Mark frequently met with the Mark frequently met with

# 27. Of Egyptian Cassia.

THE Egyptian Caffia is a Fruit like the former, only that it is thinner, and a great deal tenderer. The Tree that bears this Caffia grows to a prodigious Size; it is as large as any Tree we have in France, and differs not from the former but as the Leaves are much imaller. They meet with such vast Quantities of these Trees throughout Egypt, that the Caffia they produce goes for almost nothing there, dipecially at Grand Cairo. The Egyptian Caffed faculd be chosen as that of the Levant; it should be such as well break under the Thumb in cleaning. The Levantines and Egyptiant make a Confection of the Cassia, while tresh, which they keep to loosen the Belly, it being a Medicine very convenient, and easy to take. The Confect ought to be new, and neither aigra and marky. Some People use it here, in Imitation of the People of the Levant, to keep the Bedy open.

# 28. Of Brazil Callia.

THIS grows in Brazil, on Trees whose Leaves, Flowers, and Frust, are as in the Figure represented. The Cassis which these Trees produce is so large, that it I had not seen a Piece in M. Tournesort's Hands of about a Foot and a half long, and the Thickness of a Man's World.

Caffia of of Istands.

Brafil

Wrist, I cou'd not have believ'd that there was any Cassia so thick. But this Fruit is of little Use: But the Cassia we have the greatest Dealings in, is that we have from the American Islands.

## 29. Of the Island Cassia.

THE Cassa of the siles is that which at prefent is most used, and is a Fruit of the same
Nature with the former; all the Difference is according to the Places where it grows. The Antilles are so silled these these, that the Cassa of
those Parts costs steem anothing but the Trouble of
gathering. It is the Profit or Perquisite of the
Seamen who gather it, and stow it at the Bottom
of the Ship and amongst other Goods; which is
the Reason why it oftentimes comes so dirty, being full of Sugar and Filth that it gathers from
the other Ladings in the Ship: Chuse such as
comes nearest to the Finencis and Goodness of

the Levant Caffia that you can get.

Schroder fays, that which comes from Brazil purges more in one Ounce, than than that from Egypt in two; yet that brought from the East-Indies and by the Levant, is accounted the best. That from the West-Indies is generally large and thick rinded, and not so pulpy, and therefore worth much less than the East-India. The Pulp gently loosens the Belly, and brings forth the Excrements without griping; it is temperate in respect of Heat or Cold, and moderately moist. It is good for fuch as are troubled with Fevers, the Pleurify, or any Inflammation of the Liver or Spleen, being mix'd with Water, and Drinks of a cooling Nature. It is good to cleanse the Reins and Ureters, to bring forth Gravel and Stone, if drank in a Decoction of Cicers, Parsley-Roots and Li-It is extracted by forcing the Pulp, taken out of the Cane, through a Sieve, under which is a Vessel of hot Water, that by the Help of the Vapours, the Pulp being stirr'd about in the Sieve, may the easier pass thorough, when hot; you ought to extract it but just at the Time of using, because it grows sour with keeping. There are several compound Extracts of it, according to the Nature of the Occasion.

Cassia fistula Alexandrina, five purgans, Lemery. or Canna fistula, is a Pod, the Length usually of a Man's Arm, thicker than one's Thumb, and almost round or cylindrick, woody, of a blackish Colour. The Bark is as hard as Wood, composed of two Parts, equally join'd together, which cannot be separated but by breaking their Junctures. The Hollows or Cells are divided by thin Partitions, but very hard ones; and are fill'd with a Pulp or Substance like

Marrow, that is liquid, black, and as sweet as Sugar. Each of these Cells contains a thick Seed, like a little Pea, stat, and almost round, of a yellow Colour. This Pod is the Fruit of a large thick Tree which grows in Egypt, the Indies and several other Parts of the World; the green Leaves much resemble those of the Walnut-tree; the Flowers grow in Numbers upon one Stalk, composed each of five Leaves, disposed in a Circle, of a yellow Colour.

When the Flowers are fallen, the Cassia Sticks grow out and harden themselves, so that they break one against the other, when the Wind is strong, and make such a Noise, that they may be heard two Leagues round. The best Cassia is that which comes from the Levant; but it is so dear and scarce in France, especially in War-time, that we are obliged to make use commonly of such as comes from Egypt and the Antilles; that of the Levant and Egypt is brought to us by the Way of Marseilles, but the others by Dieppe, Rochelle, &c.

[It is to the Arabians we owe the Knowledge of this Medicines, for neither the Greeks nor Romans knew any Thing of it. The Tree which produces it is the Cassia fistula vulgaris store luteo. Breyn. Prodr. 2. 26. Arbor Cassian solutivam ferens. Bont. 201. It is common as well in Egypt as in both the East and West-Indies.

The Alexandrian Cassia is the best, but is very scarce: What we use now is the American, which is more acrid and griping than the Alexandrian; not that it is the Fruit of a different Tree, for the Tree that produces Cassia is the same in all Places; but the different Degrees of Heat make a Difference in the Fruit, for the Trees that now slourish in America, were first transplanted from the Levant, which is a Proof of the Truth of this.

The Brazil Cassa is astringent while green, but purges twice as strongly as any other Kind when ripe. The great Value of Cassa is, that it is a proper Purge in all Instammatory Cases, which cannot be said of any other known Cathartick.

#### •30. Of Tamarinds.

Thmorinds are a sharp acrid Fruit, which are brought from the Levant, Pomet. formetimes in Bunches, but more commonly freed from their Stalks. The Tree which bears them has very small Leaves; after which come white Flowers, almost like Orange Flowers, from whence arise Husks that are green at first, and grow brown as they ripen, when the Inhabitants

cones of those Paris gatter them in Clusters, and create me a little before they are fent hither.

All hade your Tamerinds fat or oilst steph, of a little little, and a flarp pleasant Tamering such a little was great Mosture, their such great Mosture, their such a little little such their adulterated with Mosture such little such a little adulterated with Mosture such little such a little was many officinal Compositions.

The sow a great many Tamerind Present them fathers her have stoned them and seed them fathers their kittle Stalks, which they make frequent the of to quench their Thirst. These Tamaring stakes are very scarce in France & They cleans marinds like Cassa, and with sugar make a consection of them, which is an unpleasant. representation of those Parts gather them in Clusters, and

make a pleafant.

Tamarindi, or Oxyphaenica, in Fruit Lemery. I about the Length of one's Timer, as with a green Bark at the Thumb, but the sorry but the grown bridge ripens, and is to render that a black, fourish, or sharp Pulp, that is grateful to the Tafte; it hangs by long Fibres, or woody Strings, form d in the Nature of a Bunch. They take this Truly from the Reeds as they do that of

Caffe.

The True which here the Tamarinds is call de Tamarinds is call de Tamarinds is call de Tamarinds is call de Ratio of Siliqua de Tamarindus; or Balam Pulli, seu Materia, Pulli. It is as big as an Alb or Cherry Page. The Trunk is large, cover'd with seithick Ash-colour'd Bark. Wood in hard, the Branches furnish'd with a great many Leaves, like those of Fern, long as one's Hard, composed of several small Leaves, ranged of each Side, hard, nervous, or stringy, green, of a pleasant Taste. The Flowers spring from Tings of Leaves join'd eight or ten to-gether like those of the Orange; white-colour'd, itrip devith red Veins. The Roots, are long, large it red. This Tree grows in several Parts large and red. This Tree grows in several Parts of the a, as Cambaya, Senega, Gr. The Letve are proper for quenching Thirst, and cooling burning Fevers, being taken in Decoc-

tion? Indians separate the Tamarinas from the Bank and the Bunch, after having dried them a little we have them frequently among us hear? we have them frequently among us hearth. the chart of the newest, that are hard see that the chart of a state of a sta

ly laxative and aftringent. They allay, by their Shahmas, the Mitterest Motion of the Humours, happnes, the abate feverilà ndsquench This They are given being taken in I may be made to two. It title ppetite An Extract is bem in fair W an Egg, a due half an Ounce Stomach and Veffels; is , falt and Humbours, St. Antions of the thony's Fire, Sc.

Tamarinds are the Fruit the Commorindus, Rai, Hift, A. 4148, Tamar lus swill de Profperi Alpini. Breyn. Prodr. 5127 the Tree is common in Arabia and in the the states.

What we use in Medicines the skitch Pulp taken out of the Pod of this late, which is some-

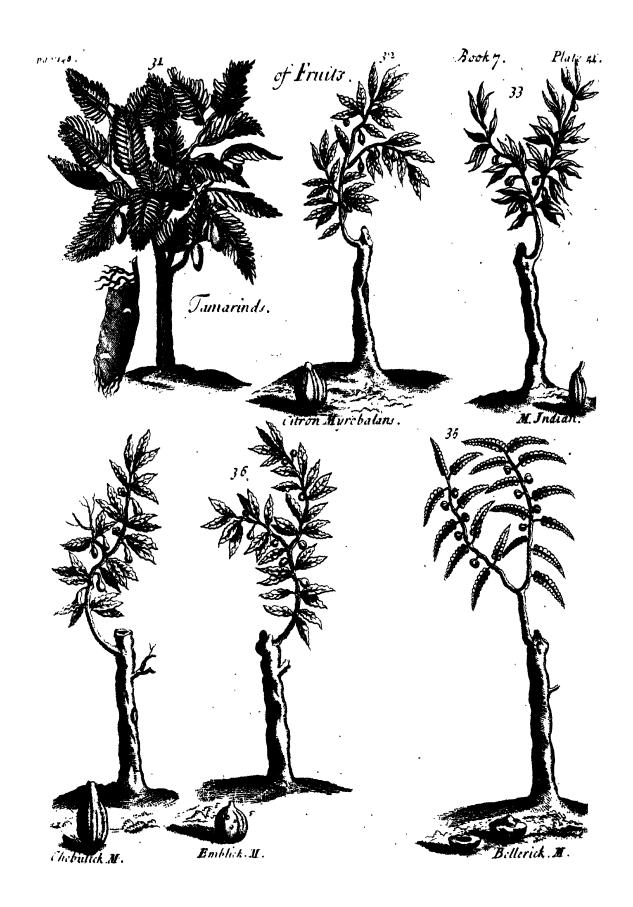
like a Reservi one of wisca's woody and the other mem-To the Arabians; for neither the Greeks nor Romans know any thing of it. The Pulp is very properly mix'd with Cassia as a Purge, and may be griden alone as an Alterative. It is very proper to be mix'd in Juleps, &c. to quench Thirst in Peven. ]

gre Of Myrobalansi;

bluelous are a Fruit of that Bigness of a tum, which are brought to us dry from feveral Parts of the East-Indies. There are five Sinds of them; the Citrine, the Indian, the Chebulick, the Bellerick, and the Emblick.

a2. Of Citrine Myrobalans,

THE Citrine, or yellow Myrobalane, Parts of the Indies, especially about in-tacalized Goa. When these Fruit are ripe they are withe Figure or Likeness of the Mirabel Plum senciosing a Stone. The dians candy this Resir while green, as we do Tains, and they lerved loosen the Bowels. The bringuese and Dring bring us this Fruit thus candid for the same and the bring us this Fruit thus candid for the same and the bring us this Fruit thus candid for the same and the bring as the same stone is taken but. Chuse your carrier show had a reddid Yel-low, long, weaker, heavy, and had believed. Pomet.



of an astringent disagreeable Taste; and beware of being imposed upon by any of the other four Sorts, to wit, the Indian, Chebulick, Emblick, or Bellerick.

# 33. Of Indian Myrobalans.

Fruit, of the Size of a Child's Finger End, black without and within, without Stone, and very hard, that are brought from the East-Indies, where they grow is great Quantities, and from whence they take their Name. The Tree which bears these has Leaves like a Willow, after which comes Fruit of the Size and Shape of a Spanish Olive, which are green at the Beginning, and grow browner as they ripen, and blacken in drying. As we have them now brought to us, they are hard, and black as Ebony. Chuse those that are well fed, dry, blackish, of a sharpish astringent Taste, and the heaviest you can get.

# 34. Of Chebulick Myrobalans.

THE Chebulick Myrobalans, or those call'd Quebuli, are a Fruit very like the Citrine, except that they are bigger, blacker and longer. The Tree which bears them is as high as an Apple-Tree, and has Lewes like the Peach, with Star-Flowers of a reddish Colour. These Sorts of Trees are met with about Bengal, where they grow without Culture. Chuse these Myrobalans sheshe, such as are resinous within, of a brown Colour, and such as have an astringent and bittensh Taste.

## 25. Of Bellerick Myrobalans,

THE Bellevick Myrolalans are a small Fruit of the Bigness of a Nutmey, of a reddish Yellow without and yellowish within, in which is a Stone supply'd with a Kernel of no Virtue. The Tree which bears these is large, and has Leaves like those of the Bay-Tree. The Fruit is fasten'd to the Branches in Shape of little Gourds, of a yellow Colour. These ought to be chosen well ted and new, smooth, high colour'd, and of an astringent Taste.

#### 36. Of the Emblick Myrobalans,

THE Emblick Myrobalans are a blackish rough Fruit, of the Bigness of Galls, easy to divide into Quarters; for which Reason almost all we have brought are after this Manner. The Trees that bear them are as high as the Palm, and the Leaves are almost like the Fern. Chuse such as are least fill'd with Stones and other Trash, which they are very subject to; but, on the contrary, the most sleshy and blackest you can meet with. The Indians do not use the Emblick Myrsbalans, either candied or raw, as the other four Kinds, except formetimes while they are unripe, for their Tartness; but they employ them to dye Skins green, as the Leather-dreffers do Sumach, and also to make Ink. Some hold that all the Myrebalans grow upon one and the fame Tree, which is far from Truth, as I have shown; for, though they all grow in the East-Indies, some of them grow fifty Leagues from one another. The Gitrine Myrotalans, which the Indians call Avare, purge Bile: The Indian, which those People call Rezenuale, and Bellaris Gotin, purge Melancholy: The Emblick, call'd Annual by the Indians, and the Chebulick, Areca, purge Flegm: Besides these five Species of Myrobalans, used sometimes in Pharmacy after the Stones are taken out, there there is also a fixth Kind of Myrobalan, call'd Dieacque-Nut, which resemble Citrine Myrebalan in Figure and Size, but is black. This Kind, however, is never brought to us.

Myrobalani, or Myrobalanes, are a Fruit the Thickness of a Prune, which are brought to us from India dry. There are five Kinds of them; the best call'd Myrebalani Citrini; the second Myrobalani Indici; the third, Chebuli; the fourth, Emblici; the fifth, Bellerici. The Citrine, or yellow Sort, are small, oblong or oval, of the Size of an Olive, or a little bigger, raised on several Sides, containing each a longush They grow upon a Tree refembling a Prune or Plum, but that bears Leaves like a Ser-It grows without Management or vice-Tree. Care in India, and particularly near Gos. This Kind of Myrobalan is the most used of all the Sorts in Physick. It ought to be chosen fleshy, heavy, hard, of a reddish yellow Colour, and an unpleasant astringent Taste.

Myrobalani Indici five nigri, five Damascii, the Indian, or black Myrobalans, are an oblong Fruit, of the Size of a small Acorn, rough and ridged lengthways, of four or five Sides, very hard, hollow within, and void of a Stone. They grow upon a Tree whose Leaves are like those of the Willow.

Myrebalani Chebuli, Quebuli, Chepuli, Cepuli, or Chebulick Myrebalans, are a Fruit like Dates, oblong and sharp, or pointed at the End which grows to the Tree, having five Corners or Ridges, of a yellowish brown Colour. They grow upon a large Tree like a Plum-Tree, in India, without Culture. The Leaves are like those of the Peach-Tree; the Flowers form'd Star-wise, of a Ce-

lour

lour tending to Red. Make choice of large, selby, hard Chebule Myrobalans, of a dark vellow Colour, and an aftringent Tafte, inclining to

Myrobalani Emblici, Embelgi, Emblegi, Ambegi, Dyseni, or Emblick Myrobalans, are a Fruit that are almost round, and about the Size of a Gall-Nut, rough on the Outlide, and ridg'd on the fix Sides, of a dark brown Colour, containing each a thick Nut, like a Filbert, rais'd on fix Corners, of a yellow Colour. The Fruit grows upon a Tree of the Height of a Palm, having long Leaves cut small and indented like the Ferns; we have these brought to us cut in Quarters, separated from the Stone, and dried. You ought to chuse them clean, without Shells, blackish without, grey within; of an astringent Taste, attended with a little Sharpness. The Indians dye Skins and make Ink with them.

Myrobalani Bellevici, Belleregi, Bellegu, or Bellerick Myrobalans, are Fruit of the Size of the common Sort, oval, or almost round, hard, yellow, more united, and less angular, or corner'd, than the others, containing each an oblong Stone, or Nut, as long as an Olive; the Stone encloses The Tree that bears this has a little Kernel. Leaves like the Bay, and is as big as a Plum-Tree. All these Sorts of Fruit yield a great deal of essential Salt and Oil, a moderate Quantity of Earth and Flegm: They are all gently purgative and astringent, something like Rhubarb; but the Citrine Kind are esteem'd more particularly for purging the bilious Humours; the Indian the Melancholy, and the others for the Serous and Fleg-matick. They may be given from fix Drams to double the Quantity, either in Pills, a Decoction in Wine, or an Extract made of the pulpy Part, by keeping them in Wine, then straining out the Infusion, and inspissating, or thickning, to a Confiftence.

[Many have been of Opinion that the Citrine and Chebule Myrobalans were the same Fruit, only in different Degrees of Maturity, the Citrine being fuch as were gather'd before they were ripe, and the Chebule such as were suffer'd to remain on the Tree 'till perfectly mature: Others have thought all the Kinds to be produced by the same Tree; but the Truth certainly is, that they are the Fruit of five entirely different Trees.

The Citrine is the Fruit of the Myrobalanifera Sorbi foliis. Jonf. Dendr. 83.

The Indian is the Fruit of the Myrebalanifera Salicis folio. Jons. Dendr. 82.

The Chebule, of the Myrobalanifera Persica

folia. Jonf. Dendr. 83.

The Bellerick, of the Myrobalanifera Lauri folio subcinerecio. Jons. Dendr. 84.

And the Emblick, of the Myrebalanifera foliis minutim incifis. Jons. Dendr. 83. Ganna indica Myrebalanus Emblica feliis Searborca Zanon. curidacæ. Breyn. Prodr. 2. 74.

The Bengal Bean, sometimes used in Medicine as an Astringent, is no other than the Fruit of the Citrine Myrobalane, hurt while young by the Puncture of an Infect, and growing by that Means of an uncommon Shape, as Plums, &c. will with us.]

#### 37. Of the Areca.

THE Areca is supposed to be the Fruit of a Kind of Palm-Tree of that Name. This Fruit is also call'd Fanfel, the East Indians make a great deal of Use of it: It is of various Shapes, sometimes roundish, but flat at the End, sometimes oblong; and there is besides a Kind that is slender and black, very hard, and of an infipid Tafte. They feldom fend us the Areca with its outer Substance; and what we have of it is fo hard, that if all Accounts did not assure us of it we could hardly conceive it could be eatable. The Areca is generally call'd Mut; it however is only a Kernel, commonly of the Shape of a Coat Button, but fomething more pointed, and is marbled within with black and white Veins like a Nutmeg. The Substance is for hard that it is like Horn.

The Indians make a Kind of Confect of the Areca, Betel, and Oyster-Shells burnt, which is in great Use among them. So many Authors have given the Preparation of this Mixture that I shall not repeat it here.

The Tree which bears the Areca is figur'd in the same Plate with the Peppers.

Areca Palma Species. Scalig. Areca five Fanfel Clus. in Garz. Ludg. Palma cujus fructus sessilis Fanfel dicitur. Avellana Indica. The Palm, whose Fruit is call'd Fanfel, or the Indian Filbert, is a Species of the Palm-Tree, very high and streight, that grows in Malabar, and several other Parts of India. The Flowers are fmall, white and almost without Smell; the Fruit is of an oval Figure, the Size of a Nut, having a green Bark, or Peel, at first, which becomes very yellow as it ripens, foft and very hairy. The Bark, or Rind, being taken away, there appears a Fruit the Size of a Filbert, fometimes half round, fometimes pyramidal; which being broken, refembles that of a Nutmeg in Fineness.

The Fruit which the Indians call Chofool, not being as yet half ripe, make those that eat it giddy and drunk: When ripe it is insipid and astringent. They reduce it to Powder after having dried it in the Sun, and having mix'd it with Betle, burnt

Oyster-

Oyster-Shells, Camphire, Aloes Wood, and a little Ambergrease, they form all into Troches, which they chew in their Mouths to make them

fpit and purge the Head.

[The Areca is the Fruit of the Palma Arecifera nucleo verficolore nuci meschata simili, Par. Bat. Pr. 361. Palma sanselisera. Jons. Dendr. 151. The Fruit is never used with us, but its inspissated Juice is what we call Terra Japonica, to be treated of hereafter.]

#### 38. Of Coloquintida.

Coloquintida is a Fruit of the Size of Point.

a climbing or viny Plant, that has given Leaves, very like those of the Cucumber. The Fruit, being upon its Stalk, is of the Colour of the Callebash, and grows plentifully in several Parts of the Levant, from whence it is brought to us, freed from the fine Skin, or outward Shell, which is yellow.

. Chuse the finest white Coloquintida Apples, that are light, round, and as little soul and broken as may be. Those who have their Coloquintida from Marseilles, or other Parts, order their Correspondents, if they wou'd serve them well, to take care that the Apples be not broken, and the Seed shak'd out; otherwise, out of an hundred Weight of Coloquintida they shall find sixty Pounds of loose Kernels, which are to be thrown away.

Coloquintida is one of the bitterest and most purgative Drugs in Phylick; therefore it ought not to be used but with great Precaution, and especially not without throwing away the Seeds. It is a strong Purge, and is an Ingredient in many Compositions. The Troches of Albandal made of it purge in a very small Dose, and an Extract is made from it which purges strongly in three, fix, The Confectioners twelve, or fifteen Grains. cover these Seeds with Sugar, and sell them to catch or delude Children with. The Apothecaries keep them by them to powder, and put into their purging Compositions, especially the common Lenitive Electuary; which is a great Abuse, and a very wicked Practice.

Colocynthis, vel Colocynthie fructu ro-Lemery. tundo minor, vel Cucurbita Sylvestris fructu rotundo minor: The lesser Coloquintida with the round Fruit, or the lesser wild Gourd with the round Fruit, is an Indian Plant which bears several Stalks that creep upon the Ground, hairy and rough. The Leaves grow singly, ty'd to long Stalks, running one from another, large, indented, hairy, rough and whitish, especially on the Outside, mark'd with several white Spots; the Flowers are of a pale Yellow, fucceeded by a Fruit about the Size of a moderate Orange, almost round, and naturally pretty dry and light, cover'd with a hard Bark, or entire Shell, that is of a yellowish shining Green. The Indians separate, or pull off this Bark, and having dry'd the sleshy Part of the Fruit, they bring these Apples of disserent Sizes, white, spungy, light, and of an intolerable Bitterness, which is what we call Colocynthis Officinarum, or the Coloquintida of the Shops. There are several Cells, or Apartments, fill'd with large Seeds, like those of Melon, but shorter, more sleshy, and a great deal harder, of a yellowish Colour, inclining to White. They cultivate this Plant in several Parts of the Levant.

Chuse such as are sine, large, white Apples, sleshy, well dry'd, light, that will easily break, and are very bitter; they yield a great deal of Oil, together with volatile and essential Salt. The Coloquintida, separated from the Seeds, is call'd Pulp of Coloquintida, and is often used in Physick: It purges violently by Stool, is proper to evacuate the serous Humours of the more gross Parts of the Body, and is recommended in the Epilepsy, Apoplexy, Lethargy, Small-Pox, overslowing of the Gall, Sciatica and Rheumatism: but ought never to be administer'd alone, but used in Compositions, as Pills, Consections, Troches, and the like.

[Colocynth is the Fruit of the Colocynthis vulgaris. Park. 160. Colocynthis fruetu rotundo minor. C. B. Pin. 313. It is brought to us from Aleppe and the Island of Crete. It is the roughest Purge we know; taken in a large Dose it not only often brings away pure Blood, but also produces Cholicks, Convulsions, Ulcers in the Bowels, and fatal Hypercatharsis. It is used in Clysters in Apoplectick Cases; and mixed with Ox Gall will purge Children if apply'd to the Navel.

There is a larger Species of this, the Colocynthis fructu rotundo major, C. B. Pin. 313. Hist. Ox. 2. 27. which is faid to possess the same Virtues,

but is never used.]

# 39. Of the Grana Tiglia, or Indian Kernels.

THE Grana Tiglia are the Fruit of a Species of the Ricinus, very common in the Antilles Islands, which grows to the Height of a Fig-Tree, and is something like it in Figure: The Wood is soft and brittle, the Leaves are something like those of the Fig, green, soft, roundish, set irregularly on the Branches, and ending in three Points. Both the Wood and Leaves yield a milky Juice. The Flowers are composed

of several yellow Stamina, supported by a fiveleav'd green Cup. The Fruit are of the Shape and Size of a middling Nut; they are green at first, afterwards yellowish, and black when quite ripe: Each Fruit is composed of three Cupsule, each including a white Kernel, cover'd with a

black cartilaginous Film.

The Plant that pears this Fruit is call'd, in Mr. Herman's Paradifus Batavus, Ricinus arbor fructu glabro Grana Tiglia Officinis dicto, which fignifies the Ricinus with the smooth Fruit, call'd in the Shops, Tyle-Seed, or Tilli-Berries. The Kernels ought to be chosen fresh, plump and sleshy; the least fill'd with Husks, Shells, or other Filth and Dirt that can be. Take care that they be the true Nuts, and that those of the Palma Christi be not imposed upon you in their Stead, which is difficult enough to distinguish, when the Palma Christi is not speckled; for when it is so, you can scarce be deceived; otherwise when it carries the Colour of the Grana Tiglia, 'tis not easy to know the Difference.

The Use of these Kernels is to purge, and they are indeed one of the greatest Purgatives we have, which makes it that we ought not to meddle with them, but with great Care and Precaution, not venturing to administer them but to strong and robust Bodies. As to the Quantity, one may give six, eight, or ten Grains in Weight, according to the Constitution. Some affirm that it is nothing but the thin Membrane, or Skin that covers the Kernel, which gives it the purgative Quality, which I cannot affirm positively, as I

am not quite certain of the Truth of it.

Besides these, which we improperly call the small Kernels, we sell another Sort, call'd Barbary Kernels, large Indian, or American Kernels; which are the Seeds of what Caspar Bauhinus calls Ricinus Americanus, semine nigro; the American

Ricinus with the black Seed.

Besides these, there are two Sorts of Indian Kernels, which we do not trade in at all, by Reason of their great Scarcity. The first are Kernels of the Size and Shape of the Filbert, extremely white, and are cover'd with a hard Shell of different Colours; to wit, grey and reddish; these grow three together in a Shell, of a triangular Figure; the Plant which produces them being call'd Ricinus fructu maxino, or the Ricinus with the large Fruit.

The second Sort are little long Kernels, of the Bigness of a Pin's Head, spotted a little, like those of the Palma Christi, which grow together, in a little three-corner'd Pod, of the Size of a Pea: These little Pods, or Shells, differ from the Indian Kernels, in that the Shell is composed of five little hairy greenss Leaves. The

Plant which produces these, has Leaves like those of Dittany of Crete, only that these are greenish, and those of Dittany are whitish. These little Fruits are extremely scarce, and the Plant that bears them may be call'd Ricinus Indicus fructu minimo, the Indian Ricinus with the least Kernel. As for the Palmo Christi, the great and the small, together with the Fruits of the Spurges, I shall say nothing of them, because many others have treated of them; and the rather because honest People will have nothing to do with them.

Ricinus Vulgarie, according to Baubinus and Lournefort, or Cataputia ma-Lemery. jer Vulgaris, the common Ricinus, or greater Spurge, is a Plant that has the Refemblance of a Imall Tree, whose Stalk rises fix or feven Feet high, thick, woody, hollow within like a Reed, branching at the Top, of a dark, purple Colour, cover'd with a white Powder like Meal; the Leaves are in the beginning round, but as they grow bigger they become corner'd, and divided like the Fig-Leaf, but much larger and foft to the Touch: The Flowers are so many pale Stamina, Threads, or Chives, which do not last long, and which leave nothing after them, either of Seed or Berry: These Fruits growing feparately, either upon the same Stalk, disposed in the Nature of a Bunch that is prickly and rough to the Hand: Each has three Sides, and is made up of three Capfulæ, which contain feverally an oval or oblong Seed; pretty thick, of a livid Colour, spotted without, and fill'd with a white tender Pith: When the Fruit is full ripe, it is full of Chinks, or Cracks, by which the Seed rushes out with Force; the Root is long, thick, hard, white and stringy; they cultivate this Plant in Gardens, not only for its Beauty, but because it drives away the Moles; it grows of different Sizes and Heights, according to the Places wherein it is fet; for in Spain one may see them of the Height of a Man; and in Candia there are others that grow to the Bulk of large Trees, provided there be Poles for them to mount on. The Ricini, or Tyle-Berries, are used in Medicine, and contain in them Plenty of Oil and Salt; they purge violently all Sorts of Humours, and may be given from one Grain to fix.

There is an Oil made of them by Expression, after they have been well beat, call'd in Latin, Oleum de Kerva, Oleum Cicinum, Oleum ficus infernalis: It purge the by rubbing the Stomach and Belly with it; It kills the Worms, cures the Itch, deterges old Ulcers, and allays the Suffocation of the Womb. These Berries are brought from America, and are call'd in Latin, Grana Tiglia, Tyle-Berries.

[We have four Kinds of the Ricinal Seeds brought over, the neither of them are now ever used in Medicine; they are call'd, 1. the Mexico Dut, or Mexico Seed; 2. the Barbadoes Nut; 3. the American Purging Nut, and, 4. the Tiglia. The first of these is produc'd by the Ricinus sive Caputia major vulgation, Park. 182. Nhambu Guachu sive Ricinus Americanus, Pis. 180.

The second by the Ricinus Americanus, Ger. 309. Ricinus major Americanus Curcas dictus & faba Purgatrix India Occidus, J. B. 3. 643.

The third by the Ricinus Americanus tenuiter Diviso folio, Breyn. Cent. 116. Ricinoides arbor Americana folio multifido, Tourn. Inst. 366.

And the fourth, the Grana Tiglia of the Shops, by the Ricinus arbor fructu glabro Grana Tiglia Officinis dicto, Par. Bat. Pr. 370. Palma Christi Indica, Tourn. Mat. Med. 75.

The first of these Plants is a Ricinus, but the

others are Ricinaides.

The second Species is common in America; the Seeds of it are distinguish'd from the Gruna Tiglia by a small black Speck at the End, which the others have not: They purge violently, but if the Skin that covers them be taken off, they lose their purgative Quality, and may be eaten with Sasety. New-comers into America are often eatch'd by the Natives, for want of knowing this Secret.

The Grana Tiglia are the most violent of them all; two Grains of them will work vehemently, othupwards and downwards.

### 40. Of the White Pine Kernels.

"HESE are a white Sort of little, longish, round Kernel, of a sweet Pomet. Taste, to which they give the Name of fweet Pine Kernels. These small Kernels are cover'd with a thin Pellicle or Skin, that is light and reddish, and with a very strong Nut like Shell; these Nuts, with their Kernels, are found in the Pine Apples, and are call'd, for that Reason, Pine Nuts, Pine Kernels, or Almonds of the Pine Fruit: Those we now sell come from Catalonia, as likewise from Provence and Languedoc, and several other Parts of France. To get the Kernels from the Pine Apples, they are thrown into a hot Oven, where the Heat makes them open; after which they break the Nuts, and take from thence the Kernels, which are fent to different Parts of the World: Chuse them white, the largest and least mix'd with Shells and Skins that you can get, and which are of a sweet Taske; in a Word, which neither smell of Oil or Mustiness: They are much used, especially in Lest, to make several Sorts of Ragous: The Confectioners over them with Sugar, after having stoved them some Time to take out the Oil: They make an Oil of them by Expression, which has the same Virtues with Oil of Sweet Almonds, especially when the Kernels are fresh and new: They are sometimes used to seed Canary-Birds; and the Paste, after the Oil is press'd, is good to wash the Hands with. There are several Sorts of Pine Ker-

There are several Sorts of Pine Kernels, from the several Sorts of Pines Lemery, which produce them; I shall give you an Account of sour; one whereof is cultivated,

and the other three wild.

The cultivated Pine is call'd Pinus, or Pinus Sativa, vel Domestica, by Bauhinus, Raius, Tournefort and Gerard: The Trunk of which is large, upright, and tall; naked, or bare at the Bottom. and full of Branches at the Top, cover'd with a rough, reddish Bark; the Wood is firm, strong, yellowish and scented; the Branches are disposed in Order; the Leaves grow two and two, long and small like Threads; hard, durable, and constantly green; pointed or prickly at their Tons; furrounded at the Bottom with a membranous Sheath. The Hulks or Shells, are of feveral membranous Foldings, which contain two Cells, fill'd with nothing but a light Dust; these Husks leave no Fruit behind them; that growing upon the same Stalks with the Leaves, begins by a Button, and arrives to be a large scaly Apple, almost round, or pyramidal, of a reddish Colour: The Scales which form it are hard, woody, thicker commonly at the Point, or Top, than at the Bottom; hollow lengthwise, with two Cavities. each of which contains a hard Shell, or oblung Nut, cover'd or edg'd with a thin, light, reddiff Rind; they call these in Latin, Strobili Pinei. feu Nuces pinee, or Pine Nuts, which enclose in each an oblong Kernel, half round, white, fwect to the Taste, and tender.

The second Sort is call'd Pinus Sylvestris, by Raius, &c. or Pinus Sylvestris vulgaris Genevensis, by Baubinus and Tournesort, the common wild Geneva Pine; this grows, usually, less high than the cultivated, but sometimes it attains to the same Height and Size; its Trunk more frequently strait, but is sometimes crooked; the Leaves are long and narrow; the Fruit much smaller than the first, more resinous, and falls cassily when ripe: This Tree grows in mountainous and rocky Places.

The third Sort is call'd Pinus sylvestris Mugo, five Crein, or Pinaster Austriacus, the Austriacus, wild Pine, being a diminutive Pine, which grows not above the Height of a Man; it divides itself from the Root into several large Branches, that are stexible and pliant, spreading wide, cover'd with a thick, rough Bark; the Leaves are of the

sense Form, seel disposed like the failtiested Pine, here resuch flusted whicker, flustry, left flusty of their birth flusted with the failtiest of the failtiest of the flust see and see the flust of the flust of the flust of the flust of the flust seed of the flust of t

blines, Ray and Tournsfort, or Pines Spinestris al-Anall Tree whole Wood in white, flacing-formed and refinous; the Leaves are like those of other Pines; the Fruit are in Pains, and they'd like those of the cultivated Pine, this arguet deal left, being by distributed to the Branch, by their speedy Stelks: The Plant grows in exceptionics Parts, mear the Sea-

All the Pines that grow in the hot Countries pield Plenty of Rafet, by Incilions made in their Bark; they afford Abundance of Oil and effentiol Salt : The Bark and Leaves of the Pine are askringent and deficative. We have Pine Kernels from Catalonia, Languedoc and Prevence, which are taken from the Pine Apples, as taught by Pomet. Chuse such as are new, plump, clean and white, that have a good sweet Tashe; they contain a great deal of Oil, and fome Salt; are pectoral, restorative, sweeten and correct the Acrimony of Humours, increase Urine and Seed, cleanse Ulcers of the Kidneys, resolve, attenuate, and mollify, and may be used internally and externally.

[The Pine Kennels used in Medicine are produced by the Pinus Sativa five Domestica, Ger. 1173. Pinus Urbana froe Domestica, Park. 1534-They are emollient, applutment, and very nutritive, and therefore very good in Confumptions, and make a pleasant Emullion, like Almonds.]

## AI. Of the White Ben Nut.

HE Ben, or Behen, is the Fruit of a Tree that grows in Arabia; it Punet. rifes to the Height of the Birch Tree; the Leaves are roundifh, very finall in Proportion to the Bigness of the Tree, rang'd by Pairs on Ribs, and at Distances from one Pair to another; the Fault is a Pod, or Hulk, five or fix Inches long portioned of two furrowd tough Pieces, of an athird rather than aftringent Tafte, and enclosing, in different Cells, white triangular Seeds, in large as Hazzel-Nuts, which have, under a thin Skin, a bitter oily Kernel, like that of a Nut, but whiter. The Tree which bears the Bes is very scarce in Europe, and the Figure

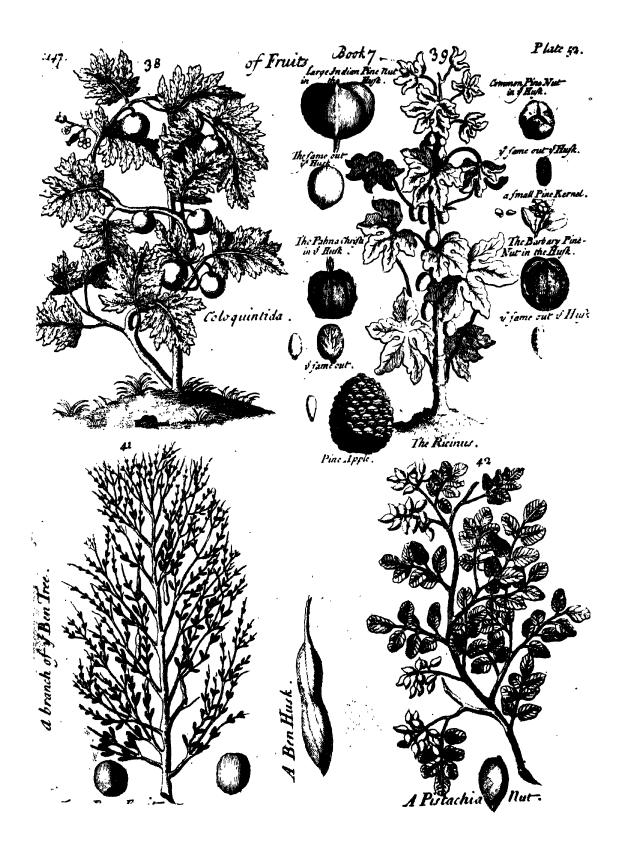
I here give you, is taken from that which is at Real of the Condition of Cardinal Farmets.

Call this Remark of the whole, fresh, and the insisted structured. They are used to make see this of which this a great strany good Qualivers, the first is, this is that stricter Tafte nor likely, and they great wish, which makes it of great display the Performent and others, for taking the Steines of Flowers, as Jeffamine, Oranges, Tuberrole, and the likely Wish this Oil is in they make display if we show famely, Ambergrease, Mark, Civet, Benjamin, Storax, Markem of Peru, 150. They grow in Syria, Arabia, Ethiopia, and India, where they come to Perfection, which they fearedly ever do in Europe.

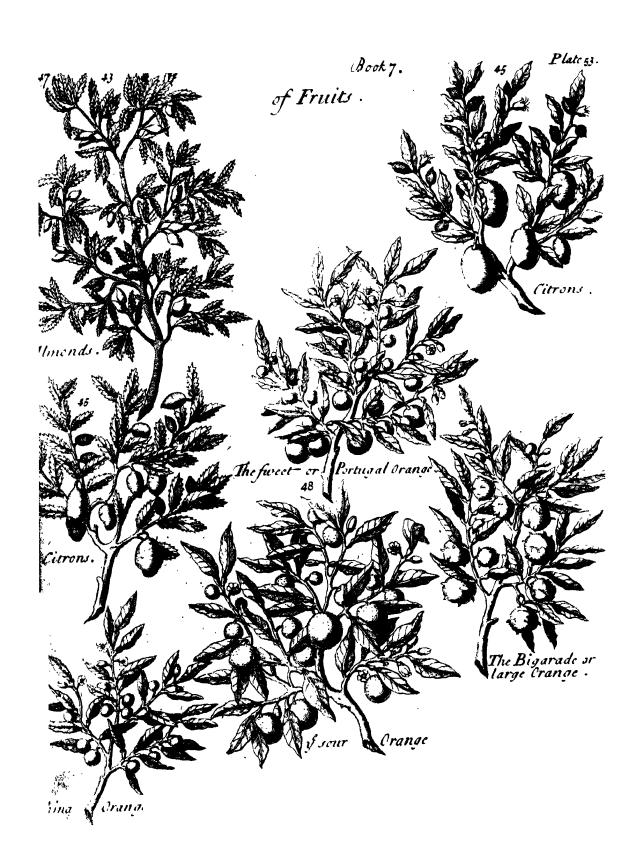
The whole Nut is of a purging Quality, and

The whole West is of a purging Quality, and the dry Pressing, or Powder, after the Oil is tabed out, is cleanling and drying ; the Shells, or Multi, bind extremely ; the Kernels bruifed, and strank with a little Ale, purge the Body from with and thin Flegni; the Oil, which is drawn out of the Nut, does the fame, provokes vomiting, and cleantes the Stomach of foul Matter gather'd therein; but the Nut itself, in its gross Body, does much more trouble the Stomach, unless it be roafted at the Fire, for then they lose much of their emetick Quality, and only purge downwards, they are given in Clysters with very good Effect to cleanse the Bowels and cure the Cholick; the Karnels, taken in Poffet-Drink to a Dram, mollify the Hardness of the Liver and Spleen. The Oil, besides its excellent Use to the Persumers, is employ'd by the Glovers and Skinners to prefer c their Leather from Spots or Stains, or from ever growing mouldy, as those perfum'd with Oil of Almonds do. It more cafily extracts, and longer retains the Perfume of any thing infused in it, than any other Oil whatfoever; being dropp'd into the Ears, it helps the Notic in them, and Deafnels. The Kernel used with Vinegar and Nitre, is good against the Itch, Leprosy, running Sores, Scabs, Pimples, and other Defedations of the Skin. Mix'd with Meal of Orobus, and apply'd plaisterwise to the Side, it helps the Spicen, and eafer the Gont, and Nerves which are pain'd with Cramps, Spalins, Colds and Bruiles. Mix'd with Honey, it disfolves Nodes, Tophes, Knots, and hard Tumours.

Ben paroum vel Balanus Myrepfica, Pharagen incelis de montan Sinai, or Lemery Gramum Ben, the Ben Barry; is a Fruit like a Hazel Nut, oblong, triangular, or raifed with three Comers, cover'd with a Rind, or thin Scale, pretty tender, and of a grey or white Colour. Within the Bark, or Rind, is a white only Almond, of a sweetish Taste. The Fruit grows







upon a certain Tree in Ethiopie, resembling the Tamariik. Choice fuch as is new, large, and well fed: There is an Od made of it of Almords, by Expression call d Olem Balanium, and which this account Quality, not to story, and which well seems of the Ben purges upwards. us and pituitous Humours. to a Dram and a half:

page 1 efolutive, and drying.

The inother Species of Ben,

an wife the been speak-

the his History of the History of th It grows in Ame-Miliane use it for the Windthe Date from half a Draw to a Draw
y weaten to broce by roating of it.

[The Bar Name, the Fruit of

Wood is the Lignum Nephritianns described in the thursdook.

The Avellana Purgas of America, I emery mentions here as a stellar media of the Ben Nut, is the Seed of the Richards arbor American ricana folio multifiato Laura. Martice de in the last Chapter.]

# 42. Of Pistachia Necs, 174

THE Pistachia is a Fruit of the Sa Pomet. which we bring from several Parts of Per-

Town call d Maletter: the Tree which bears them is much of the tright of a Nut-Tree, and the Letves theoft manner after which come Praise in Cluders, we've healthful to dook them, being green mix'd with feet. Under the Skin for Hulls, as fained a hard white Hell, which patterns a Kernel as forces man d white their pleasant. The state of the years of fluctuary in the Skin for them. fir, and other those in After, especially from about

in shorts such that three Pound Washer of them in the Shall may Meld a Pound when his to them is, a Point of Kernels.

As to be shell Pisachias, children he well, that are red webdat and great within, and the least brushed that can be.

Least brushed that can be. the Confectioner, when he is to the the for sandying over with Sugar, in order to make which they call Piftachia Comfits. They are von little they call Piffactors commus.
used in Physick, except that they must then into fome Galenical Compositions, being a first Re-florative in old Age. They make an Old of the Pylachia, but it is of for little Use, I shall say nothing of it.

Pistachia, Phistachia, Fistici, or the iffachia, is a Fruit of the Shape and Lemery. Business of the green Almond, which is brought from Perfie, Andres They grow in Turpentine Tree, c Theophrassus, or the Toursefort, &c. and by Park This Tree hears Leibhi, and Turpentine Tesce, but here, or flungy, and Control of rally upon a long to be made The Flowers and definition are fix'd at the Backing. which rife to the Town Frank believed

Colour; these leaves Frank behind the first and growing upon States that bear of the states of the Trail growing upon States that bear of the Ways the first is tender, of the states of the with red; the second is small by the states of the with red; they enclose the states of the s sperive, moiltening, restorative, sixily the Store machined procuse an Appenite. The ripe Nut Panee is freely and liberally eaten by People of Quality, as well to gratify the Palete, as for phylical Ules.

The Piftachia Man is the Fruit of the Piftachia Rever una fructu recome o, for Terchiathus
fine Theophrafti, in B. Since and Piftachus
fine receme fo, Joni. Desch. 12. It is common in the lot Countries. The Ruit is requently eaten, bur the line Wie Madiaine.]

E fell two Sorts at Amionos, the rweet and the bitter. The Trees Pomet. This is a produce these are so distinuous, it will be a produce these are so distinuous, it will be a produced for the produce of them, containing unfiel fouly to say that both sorts of Almonda tome distinuous and Chinon in source, but the most values of all, are those that army about transmit the same say, reddith without, and thin willies of a tweet plantain. Take, which is sometrary to state of Chinon and British, that are small and sounding. As to the 19th of the sweet Almonda, it is to considerable, and showed known throughtus the model, the predicts to simulate it at I shall that the state of the sweet Almonda of a transmit shall be predicted to mission it at I shall that the state of the sweet as held a state of the valt Consumption that is similar of at. There are beside sweet Almonds so in the Shell, Pomet. There are belide fiveer Almonds fold in the Shell, call'd, the' improperly, Florence Almonds, for the greatest

preatest Part of what are fold of them, are brought from Languedec and Tourains; the best of these are reckon'd those that break easily under the Thumb. These are of scarce any other Use than to surnish Gentlemens Tables as Part of the Defert.

Antygdala or the Almond, is the Fruit of a Tree call'd in Latin Amygdalus, or the Almond-Tree, which is cultivated in our Gardens. The Leaves are long, narrow, and ending in a sharp Point, of a bitter grateful Tafte; they resemble the Peach Leaves, and are hardly to be diffinguish'd from them when pluck'd from the Trees, except that they are tougher or more pliant. The Flower is also very like that of the Peach, but much whiter, and less purgative. It is succeeded by a hard woody Fruit, oblong, cover'd with a hairy greenish Husk that is selfsy. It contains within it an oblong flat Almond, which all the World knows. There are two Kinds of Almonds, the first whereof, or the sweet, are pleasant to eat, of good Nourishment, and proper against Lasks and the Bloody-Flux; they are pectoral and opening, good against Coughs, Cold, Afthma's and Confumptions. An Emulsion or Milk made of them with Barley-Water, is a good Drink in Fevers, Diarrhoeas and Dysenteries. The Virtues of the Oil will be mention'd under that Head.

[The sweet Almond is the Kernel of the Fruit of the Annydalus sativa fruitu majore. Boeth. Ind. 2. 245. C. B. Pin. 441. Annydalus Dulcis. J. B. 1. 174.

And the Bitter of the Amygdalus Amara. Boerh.

Ind. 245. C. B. Pin. 441.

The Sweet make an exceeding pleasant Emultion, good in all Disorders from acrimonious Humours.

The Bitter are aperient, deterfive, and diuretick, good in Obstructions of the Liver, Spleen, Mesentery and Womb, and are also said to take off the Essects of Drunkenness.

Our present Race of Chymists, as they call themselves, make what they sell under the Name of Black Cherry Water from these, as they give the same Kind of Flavour by Distillation as the Kernel of the Cherry Stone; and they use for this Purpose only the Resuse Almond Cakes, from which the Persumer has before express'd what he sells under the Name of Oil of Sweet Almonds.

#### 44. Of Oil of Sweet Almonds.

Pomet.

I L of fweet Almonds is prepar'd feveral Ways: Some do it by blanching, and others by pounding them as they are; fome use good Almonds, and others bad dente, and every one according to his Capacity and bis Conscience; the Method of expression with Oil is so commonly known, that it wou'd

be triffing to pretend to give any Account of it at this Time of Day; I shall therefore only inform you-that there are two Sorts, the one drawn by the Fire, and the other without, which is call'd the cold drawn Oil, and is only proper for internal Use, the hot being subject in a fhort Time to grow rank and flinking. After the fame Manner Oil of bitter Almonds is made, chiefly for external Use; as likewise Oil of Walnuts, Hazel Nuts, Ben, white Pine-Kernels, and of the Ricinus Seeds call'd Oil of the infernal Fig, which is much used by the Savages to kill Vermin; as alfo from white Poppy Seeds, the four cold Seeds, Linfeed, and the like, by Expression, and without Heat. As to the Way of chufing all these Sorts of Oils, the best Advice I can give you is to deal with honest People that are above putting a little Cheat upon you, and not to deal with Hawkers, but give a Price for that which is good in its Kind.

Befides the Oil, there are Mackaroons made by the Confectioners out of the Almonds blanch'd and beat up to a Paste with Sugar, &c. The Almond-Paste which remains after the Expression of the Oil, serves the Persumers to sell for washing the Hands, and making the Skin smooth. The Oil by Expression new drawn, is good against Roughness and Soreness of the Breast and Stomach, Pleurisies, Coughs, Asthma's, Wheelings, Stitches, hectick Fevers, Ulcers in the Kidneys, Bladder, Womb, and Guts; and helps Scalding of Urine. Oil of bitter Almonds helps Deafnets, if dropt into the Ears, as also Pains and Noise therein. Outwardly it takes away Spots in the Skin, and brings down the great Bellies of Children. Oil of bitter Almonds given inwardly with Manna and Sugar-candy is good against Cholick and Stone, Gripes in Children, dry Coughs, and for Women in Labour. Some fay that the Oil of sweet and bitter Almonds both may be preserv'd from being rank by the Help of Spirit of Wine tartariz'd.

[The Oil of fweet Almonds is generally more carefully prepar'd than that of the bitter; the Almonds are blanch'd, and beat to a Paste in a Marble Mortar, and the Oil pressed out without the least Assistance of Heat.

That of the bitter is generally made from them Skins and all, and they are thoroughly heated before they are put into the Press, and this is commonly fold and used under the Name of Oil of Sweet Almends.]

### 45. Of Citrons.

Pennet. THE Citrons, both the sweet and four, are Fruit so common, and so well known in most Parts of the World,

World, that I shall pass by their Description, and content myself to say that what we sell comes from St. Rhemes about Genea, Nice, and Manton, a little Village belonging to the Duke of Savey from whence they are brought by Sea and Land to Marseilles, Lyens, Rouen and Paris. Sale of Citrum is not made in the Cities aforefaid, except Nice, but by the Determination of the Council of the Place, it happens twice a Year, that is to say, in May and September; sometimes three Times a Year, according as the Crop or Harvest is considerable, and when the Time of the Sale is, they fell only fuch as will not pass through an Iron Ring made round for that Purpose, all that go through serve to make into Juice, which they transport to Avignon and Lyons, for the Dyers in Grain. As to the choice of fweet or four Citrons, the Commodity is too well known to need any Description.

#### 46. Of Oil of Citron.

WE fell two Sorts of Citren Oil, to wit, the common, and that which is call'd the Effence of Cedre. The first and most valued is that which bears the Name of the Cedre Essence or Bergamet, which is made two Ways, either by the Zest, or the rasping or grating of the Citronpeel fresh; with an Alembick and Water they draw this Way a white odoriferous Oil, like the Oil of sweet Almonds, but that it is not so gross and fat. The second Sort is the common Oil of Citrons, which is greenish, clear, and fragrant, and is made by the Alembick, with the Lee or Settlings that are found in the Bottom of the Cask, wherein Juice of Citrons has been kept; fifty Pounds whereof will afford three Pounds of clear Oil, more or less, according to the Goodness and Newness of the Citrons. These Oils are used by the Persumers, because of their agreeable Smell, especially the essential Oil. As to the four Gedre, or Bergamet, 'tis a Juice made from a certain Kind of half-ripe Citrons that come from Bourgaire near St. Rhemes, from whence it is carry'd into feveral Parts. The Use of it is likewise for the Persumers, and it is also used by feveral other Persons.

#### 47. Of candied Citrons.

WE have finall Citrons brought from the Madeiras of different Sizes, candied two forts of Ways, to wit, dry and liquid. They are very pleafant to eat, and should be chosen tender, green and new. There is belides, the Citronpeel, that comes from the Madeiras, candied dry, the best of which is the freshest, in little Pieces, clear and transparent, very green on the Outside. and the most frosted with the Candy within that can be, very fleshy, easy to cut, and well dried, not full of black Spots, which happens not to it

but by Moisture, which it gets by Age.

The-Citron-peel is much used, because it is excellent to eat. There is, besides, what we call Chips, that are cut into little Pieces. The Turks with the Juice and Sugar make what they call Serbee, the best of which comes from Alexandria. With the clarified Juice and fine Sugar we make Syrup of Citron, to cool the Blood, and quench Thirst. The Citron Juice which is made at Paris, is not fit for any Thing, being made chiefly of decay'd Citrons.

Citron-peels come also to us from Spain and Pertugal; those which look fresh and of a lively yellow Colour, and that have a fragrant Smell, are best; if the Colour and Smell be decay'd, they are not of much Value. They are cephalick. neurotick, stomachick, cardiack, hysterick, and alexipharmick, good against all cold and moist Diseases of the Head and Nerves, Bitings of Serpents and mad Dogs, and all Sorts of malign and pestilential Diseases; Measles, Small-Pox.

Plague, Surfeits, &c.

Under this Head it may not be improper to far fomething of Lemons, which are much of the fame Nature. They grow in all the fouthern Parts of America, as also in Spain, Portugal, Italy, and France, and with much Care and Housing in the Winter in England. The Juice. which is that we intend to speak of here, is sharper than that of Citrons, and therefore dryer and cooler. It is of good Use in Weakness of the Stomach, Vomitings, violent burning Fevers, as also in malignant and pestilential Fevers, and in Diseases of the Kidneys and Bladder. It is also used as a Menstruum to dissolve Bodies, and in some Mixtures and Drinks. A Syrup of Lemons for the same Purpose is made with an equal Quantity of Sugar, and thus the Juice is preferv'd; for if it be kept long by itself, it will be apt to grow musty, and lose its Acidity.

Citreum vulgare, as Mr. Tournefort calls it, is a little Tree that is always Lemery. green, whose Branches spread wide, and are pliant, cloath'd with a smooth green Bark. The Leaves are plain, long, and large as the Walnut, pointed like those of the Bay-Tree, but more fleshy, indented on their Sides, of a fine green shining Colour, especially on the outfide, and of a strong Flavour. The Flower is made up of five Leaves, round, the Colour white, inclining to red or purple, of a pleafant Smell, supported by a round hard Cup. When the Flower is gone, the Fmit forms itself usually

chong,

oblong, sometimes oval, and sometimes almost round, as thick as a large Pear, cover'd with a rough uneven Rind, sleshy, thick, of a green Colour at the Beginning, but as it ripens it becomes of a light Yellow without, white within, of a very agreeable Smell, and a biting atomatick Taste. This Rind covers a vesiculous Substance, divided into several Cells, or Partitions, full of a Juice that is acid and very pleasant to the Taste, and with some oblong white pithy Speds, of a Taste that is a little bitter. The Fruit carries the Name of the Tree that bears it, which is the Citem Tree, cultivated in the hot Countries, as Italy, Provence or Language; the Fruit is chiefly used in Physick, the Leaf and Flower very rarely.

These two latter, namely the Leaf and Flower, afford abundance of Oil, volatile and essential Balk; they are cordial and strengthen; the Rind, especially the very outward Part that is yellow, yields a good deal of volatile Salt and Oil: It is proper to Sertify the Heart, Stomach and Brain, and to resist Poisson. The Juice contains in it a Quantity of essential Salt and Flegm, but very little Oil: It is cordial, cooling, proper to abate the Heat of the Blood, to precipitate the Bile, to quench Thirst, and resist Posson. There is a Way of sticking a Citron all over with Cloves, to carry in the Pocket to smell to in any epidemical Sickness, in order to drive away the Contagion. There is another Kind, call'd the Sweet Citron, because not sharp as the other; but in no Esteem either for its Use or Beauty.

[The Citron is the Fruit of the Malus Citriu five Medica. Rai. Hist. 2. 1654. Citrum valgare. Boeth. Ind. Alt. 2. 420. It is cultivated in Spain and Italy, and the Lemon of the Malus Limonia. Ray Hist. 2. 1656. Malus Limonia

acida. C. B. Pin. 436.

The Citron and Lemon have much the same Taste and Virtues, but the Lemon is the sharper of the two...

#### 48. Of Oranges.

Pomat. THE sweet and sour Oranges come from Nice, Assenta, the Isles of Hyeres, Genoa, Portugal, the American Mande, and China; but the largest Stote of those we use now come from Provence. Oranges, as well as Citrons, are so well known that I shall make no Description of them,

Oranges are canded whole, after having been scool'd; and these are what we call whole Oranges, or whole Canded Orange Peel. The finest is that which is made at Tours, because it is cleaver, more transparent, and of an higher Colour than

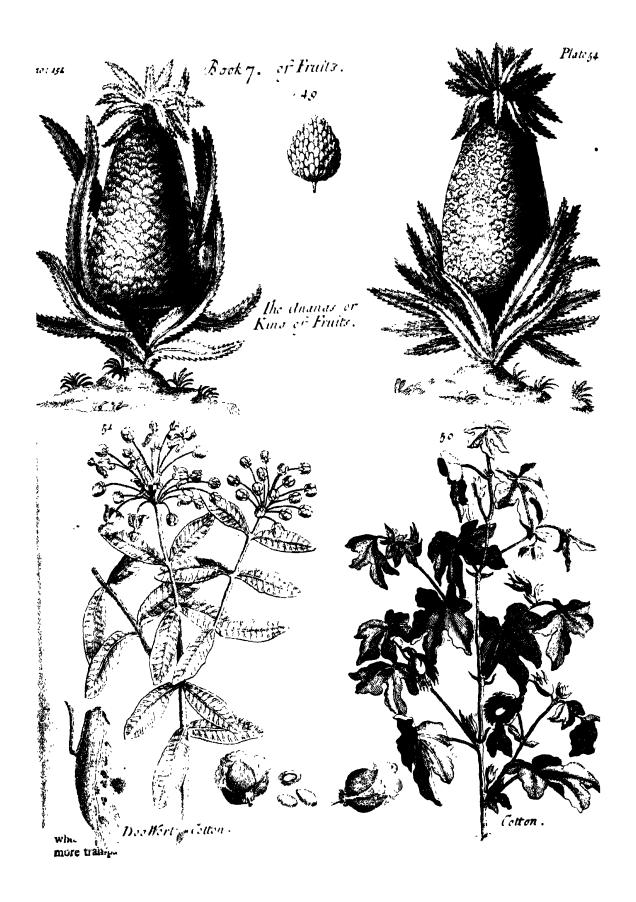
any other. We have Orange Ped cut in Chips from Lyons, which is what we call Orangese, and cover'd with Sugar is the Orangest Comfr.

Belide the large Trade we have in the sweet and four Oranges, and the Biggirrades or large Oranges, we also sell the candid Orange Flowers, which come chiefly from Italy and Prouden; and the diffill'd Water is what we call Nantha and Orange Flower Water, which is used by the Perfumers; that which is best ought to be of a sweet Smell, bitter Tafte, very pleafant, and of that Year's Diffillation; for what is kept above the Year loses its Smell. Those who distil Grange Flowers draw also a clear Oil of a strong Fragrancy, which the Performers call Neroli; the best is made at Rome, and the next in Provence: This is the common Opinion; but we may assure ourfelves it is erroneous, for that it is easy to make better at Paris than either in Italy or Prevence; the Reason is, that Italy and Provence being hotter than our Climate, the Sun more readily exhales the Odour; but we cannot draw the fame Quantity of Oil as in the hot Countries, for in Italy and Provence they may make several more Distillations than we can, because the Flowers that are in Prime one Month in Paris hold two in Provence and three in Italy, because of their greater Nearnels to the Sun.

The Difference between Naptha and Orange Fower Water is, that the Naptha is distill'd from the Leaves of the Orange Flowers, pick'd clean from the Filaments, &c. and the Orange Flower Water from the whole Flower as it is gather'd; the Naptha Water therefore, truly prepar'd, is much finer and more fragrant than the common Orange

Flower Water

The People of Propence bring us an Oil which they make from the Zefts and the outward thin Rind of the Oranger, by means of an Alembick and Water, and this Oil is of a strong sweet They bring besides another Sort we call Smell. Orangelette Oil, which is made of the little Oranges, which they distil in an Alembick, with a fufficient Quantity of Water, after having in-fused it five or six Days in the said Water. This Oil is of a golden Yellow and a strong fragrant Smell. The Oils of Oranges are excellent Remedies for curing Worms in little Children, and likewise the Water made in drawing the Oil serves for the same Purpose; upon this Account the Perfumers of Prevence transport a great deal in Bottles and Barrels to several Parts to give to young Children. The greatest Quantities of this Oil are made at Grave, Biot, three Leagues from Grave, and at Nice. I ought to inform you, that most of the Oils which come from Provence are adulterated or mix'd with Oil of Ben, or Sweet Almonds;



many they ought not to be bought but

Arantium, Arantium, Aureum ma-timum Nerantium vel Anerantium, Arantium vellow, sweet such that with upon a Tree call'd in Latin, testis; sue Arangius; the Leaves are of Mal of these of the Bay-Tree, but meets the the ways green, having a fine white Flower wint Smell, composed usually of five hat fland round, and are supported by a his Tree is cultivated in all our Gardens, and in the swarms Countries.

and a stable of which a great deal of examples, one finally will be green the state of Oranges, one finally will be some colour, and fine to the Tailing The Richards most used in Physick, from the colour of which they make Zefts, which are and own which a great deal of examples and which are and own which a great deal of examples are and one of which they make Zefts, which are and one of which a great deal of examples are and one of the colour which are the colour which a great deal of examples are and one of the colour which are the colour which ar Of anti-volatile Stit, which contains almost all the Scent of the Fruit; the Juice is acid, and confequently full of effential Salt. The Rind of the bitter Orange is much effeem'd to recreate the Spirits, strengthen the Stomach and Brain, relist the Malignify of Humours, and excite Womens Courses.

The Juice of the bitter Orange is cordial, and the Flower cephalick, stomachick, hysterick, and proper against Worms; The other Orange contains in it a fweet and pleasant Juice, compos'd of a great deal of Flegma a little Oil and effential Salt, whereof the Rind likewise partakes in the fame Degree: The Fruit is moistening, cordial, cooling, and good to allay Thirst in continual Perers: The acceptant the fame Vertue as that of the Cition, but is foldown wheel in Physicals.

· Others there are who di ide the Oranges into three Sorts; the Crain or four Oninge; the Bitter, or Spville, and the China, or fweet Orange; Of all which, the Smille, or bitter Orange, is of most Virtue, and mostly used in Physick, as the Poel for Confections, the Oil for Perfumers, Juice for Syrups, Flowers for Gudring, Seed, or Kernel, for Emulions; and the Water, or Spirit, for a Cordial; in all which Forms they are flomsphick, cephal ck and anucholick.

[The wass Orange is the Fruit of the Auran-Firm Medica delte vulgare. Fer, Hefp. 377. The Sound of the Aurantium seri medulla vul-

The Profest the lecond Kingles what is most used to Manicine: It is a very agreeable atomatick Rister, and gives a very agreeable Flavour to bitcally made an ingredient.]

11 11

49. Of the Anange, or Pine-Apple, the King of Freeze.

Father Discrepancial the discrete and belief all that are upon the Father of the Land of Kings an elected a Crown upon the Father of the Land of it, which is an ellential Mark of its Reliable to the Father it produces a voing King. the Father it produces a young King, that fine receds in all his admiration Qualities. It is affine there are other young Kings believe that Bell inderneath the Fruit, and a the Britain of the Braik, that produce the dagment in the Files and with the fame Eafe, with the which require the Copyright but it is also true, that which require the Copyright but it is also true, that the Fruit which is produced from the contract the Copyright that the contract the copyright that the copyright the copyright is produced from the copyright that the c duced from this is incomparably much finer than the other.

This Fruit grows upon a round Stalk, the Thickness of two Thumbs, and about a Foot and half high, which grows in the Middle of the Plant, as the Artichoak in the Midst of its Leaves. The Leaves are about three Feet long, four Finters broad, hollow like small Pipes, briffly on the Edges, with little tharp Prickles, and ending with a sharp Thorn like a Needle. At first the Fruit is not to hig as one's Fift; and the Clusters of Leaves, which is the little Crown born upon the Head, is red as Fire; from every Scale or Shell of the Rind of the Fruit, which in Shape, though not in Substance, is very like the Pine-Apple. there arries a little purplish Flower, which falls off and withers as the Fruit encreases.

They are distinguish'd into three Sorts, namely, the large white Ananas, the Sugar-Loaf, and the Rennet-Apple Anames: The first is often eight or ten Inches Diameter, and fifteen or facteoen high; the Flesh is white and sibpous, but the Rand of a golden Yellow; when it is ripe it seize sorth a ravishing Smell, which is formething like that of the Quince, but much allors delicate; but though this Kind is much larger and liner to Appearance than the others, the Tafte is not so excellent, neither is it so much esterm'd; it sets the Teeth on Edge, and makes the Gums bleed more than the others.

The second fort bears the Name of the Sugar-Leaf from its shape and Form, that entirely refembles it: It has Leaves a little longer and narrower than the former, and not fo yellowish: The Taste is better than that of the former, but it makes their Gums bleed that eat much of it. I have found in this Kind a Seed like that of the Garden together.

Garden Creis; though it is the general Opinion that the Ananas does not feed at all.

The third is the least, but the best, and is called the Rennet Apple, because of its Taste and Smell, that both have some kind of Resemblance to that Fruit; it feldom fets the Teeth on Edge, or makes the Mouth bleed, if it is not eat to a great Excess indeed; this is what each of them has particular, but they all grow after the same Manner, bearing their Tusts of Leaves, or their Crown upon their Head; their Rind looks like that of the Pine-tree Apple, but feparates, and cuts like that of the Melon; and though the Flesh, like that of all the others, is fibrous, it altogether melts into Water in the Mouth, and is so elegantly tasted, that I know not how to describe its Flavour better than by faying, that it partakes of the Peach, the Apple, the Quince, and the Muscadine Grape, all

Some, to take away the Quality of making the Gums bleed, and inflaming the Mouths of fuch as eat too much of them, or eat them before they are full ripe; after having pured off the Rind, and cut the Flesh into Slices, they leave it a little while to steep in Spanish Wine; and this not only frees the Ananas from this ill Effect, but it communicates to the Wine a most agreeable Taste and Smell. There is a Wine made of the Juice of this Fruit, almost as strong as Malmfey; and which intoxicates full as foon as the best and stoutest Wine in France. If you keep this Wine above three Weeks it will feem dead and spoil'd; but if you will have Patience with it for a little Time longer, it will recover itself perfectly, and be stronger and better than before. When moderately used, it is good to exhiberate the Spirits when oppressed, and prevent the Nauscatings of the Stomach; is good to relieve the Suppression of Urine, and is a Counter-Poison for those who have drank of the Juice of the Yucca or Manihot Root. Women with Child, however, must take Care how they drink the Wine or eat the Fruit in great Quantity, left it should cause Abortion. We sell at present the preserv'd Ananas at Paris, brought from the Indian Islands, which are very good, especially for aged People to restore the natural Heat, and comfort jecble Spirits.

Ananas, Nanas, or Jayama, is a very Lemery. fine East-India Fruit, which grows upon a Plant, and of the Size of the A tirboke. This Fruit is adorn'd on the Top with a little Crown, and a Bunch of red Leaves like Fire: The Rind appears with a Shell like the Pine-Apple, but separates like that of the Melon; the Fiesh is sibrous, but disloves in the Mouth, harman separates like that of the Mouth, harman separates like the M

ving the delicious Tafte of the Peach, the Quince, and the Muscadine Grape, all together.

There are three Sorts, as Mr. Pomet has deferib'd them from Mr. Du Tertre: They make a Wine from the Juice, which is almost equal to Malmsey Sack, and will suddle as soon. It is proper to strengthen the Heart and Stomach against Nauseating, to refresh and recruit the Spirits; it excites Urine powerfully; but Women with Child ought to avoid it, because it procures Abortion: They make a Consection of the Ananas upon the Spot, which is brought hither whole; this is good to warm and restore a weak and aged Constitution.

[The Anonas, or Pine-Apple, is the Fruit of the Pinea Brafiliana Ananas dicta, Hift. Ox. 3. 171. There are a vast many new Species of it found out since the three describ'd by our Author; but as they have no Use in Madicine, it would be foreign to the Intent of this Work to enter into a Detail of them here.

They have long been produced in the Gardens of the Curious here, and are at prefent regularly fold as other Fruits of the Production of our own Climate.

The Yucca Root they make their Bread of when dry; but the Juice of it is poisonous.]

#### 50. Of Cotton.

COTTON is a white foft Wooll which is found in a kind of brown Pomet. I hell, which grows upon a Shrub in Form of a Bulh; what Father Du Terre says of it is as follows: At first, when the Islands were inhabited by the French, I saw them, says he, fill their Plantations sull of Cotton Shrubs, in hopes the Cotton would yield them great Profit in Trade; but most of the Merchants would not meddle with it, because it took up too much Room, and was subject to take Fire, decay and the like.

This Shrub grows in Form of a Bush, and the Branches that stretch wide are well charg'd with Leaves, fomething less than those of the Sycamoro, but almost of the same Shape: It bears a great many fine, yellow, large, Flowers; the Bottom of the Flower is of a purple Colour, and it is all strip'd on the Inside; it has an oval Button that appears in the Middle, and grows in Time to the Size of a Pigeon's Egg; when ripe it becomes black and divides itself into three Parts at Top; and the Cotton or Down in it, looks white as Snow: In the Cluster of Down, which swells with the Heat to the Bigness of a Pullet's Egg, there are seven black Seeds, as large as Lupines, sticking together; their Inside is white, oily, and of a good Tafte.

This

This Cotton grows in great Quantities in all the Islands, and the Natives take great Care in the cultivating of it, as a Thing very useful for their Bedding: I have observed one Thing of the Cotton Flower not known to any Authors yet, or at least not taken Notice of; which is, that the Flowers, wrapp'd up in the Leaves of the same Tree, and bak'd or roasted over a Fire of burning Coals, yield a reddish viscous Oil, that cures in a little Time old standing Ulcers. I have often experienced it with very good Success: The Seed of this Shrub will make the Parroquets suddled; but it is beneficially used against Fluxes of Blood and Poisons.

We fell several Sorts of Cottons, which only differ according to the Countries from whence they come, and the various Preparations. first is the Cotton in the Wooll, that is to say, that which is as it comes from the Shell, only with the Seeds taken out; this comes from Cyprus, Smyrna, &c. The second is the Cotton in the Yarn, which comes from Damascus, and the Ferusalem Cottons, which are called Bazac. There are several other Sorts; as, the Demi Bazacs, the Beledin Cottons, those of Gondezel, Motasin, and Genequin; but of all the Cottons, we fell scarce any but that of Jerusalem and the Islands. true Bazac, or Jerusalem Cotton, ought to be white, fine, smooth, the best spun, and most equal, or eveneft that can be. As to the Cotton in Wooll, the whiter, longer, and sweeter it is, the more valuable it is. Those who buy in whole Biles, ought to take care it be not damag'd with Mould, Mustiness, or wet. Cotton has many Uses, too well known to need being related here. As to the black Seed which is found in the Cotton, an Oil may be made of it, admirable for taking away Spots and Freckles, and for beautifying the Face; and which has the same Virtues with Oil of the Cokar Kernels, made after the same Manner by the Indians, especially in the Island of Assumption, from whence almost all the Cokars we now sell are brought.

Xylon, Coto, Gossipium, Cotoneum,
Lemery. Bombyx Officinarum, or the Cotton of the
Shops, is a Plant whereof there are two
Kinds: The first is called Xylon five Gossipium berbaceum, by J. Baubinus, Ray and Tournefort;
Gossipium fruticescens semine albo, by G. Baubinus;
which signifies either the Herb Cotton, the Annual
Shrub Cotton, or that with the white Seed: It
bears a Stalk of a Foot and a Half, or two Foot
high, that is woody, cover'd with a reddish hairy
Bark, divided into several short Branches; the
Leaves are a little less than the Sycamore Leaves,
shap'd almost like those of the Vine, hanging to

long Stalks, adorn'd with a Nap or Hair; the Flowets are numerous, fine and large, having the Shape or Form of a Bell, slit or cut into five or fix Divisions to the Bottom, of a yellow Colour, mix'd with Red or Purple: When the Flower is fallen, it is succeeded by a Fruit of the Bigness of a Filbert; which being ripe, opens into three or four Quarters or Partitions; from whence appears a Flake of Cotton, white as Snow, which swells up or tumifies by Heat, to the Size of a little Apple. It contains in it gross Seeds like small Peas, oblong, white, and cottony; each having in it a little oleaginous Kernel that is sweet to the Taste.

The second Sort is called Xylon Arboreum, or the Tree Cotton, by J. Baubinus, Ray and Tournefort; it differs from the former in Bigness, for this grows into a Tree or Shrub of sour or five Foot high. The Leaves approach, in some Measure, to those of the Linden Tree, indented deep into three Parts, without Nap or Down: The Flowers and Fruit are like those of the other Kind. The two Species of Cotton grow in Egypt, Syria, Cyprus, Candia, and the Indies: The Flowers are vulnerary; the Seed pectoral, proper for Asthmas, Coughs, to procure Seed, consolidate Wounds, for Dysenteries, Scourings of the Belly, Spitting of Blood, &c.

[The Shrub which produces the Cotton, is the Gosspinium frutescens Annuum, Park. 1553. Gosspinium frutescens semine nigro, C. B. Pin. 430. The Seeds are commended by many Authors in various Intentions; but they are never heard of in the present Practice. The Cotton itself is said to do Wonders in the Gout, being burnt upon the Part; but its Efficacy can be no other than that of Fire, or Quick Lime; whatever Good attends this Practice being wholly owing to the Burning.

The Xylon Arboreum is never heard of in Medicine.]

# 51. Of Apocynum, or Dog's-Bane Cotton.

THE Houette, or Dog's-Bane Cotton, is a Kind of Cotton taken from the Pomet. Husk of a Plant which the Botanists call Apocynum, which fignifies Dog's-Bane; which is represented in the same Plate with the Cotton; this grows plentifully near Alexandria in Egypt, especially in moist and marshy Grounds, from whence we have what is now sold amongst us. This has no other Use than to fur the Robes of Persons of Quality.

Apocynum Ægyptiacum lastescens, filiqua Asclepiadis C. Baubinus, vel Apo- Lemery.
cynum Syriacum, seu Palassinum, sive
X Ægyptiacum,

Egyptiacum, the Syrian, Puleftine or in Sant Dog's-Wort ; Apocynum Egyptiacum floris Dog's-Wort: Apocynum Especiacum foriginal faircatis, Tournefert, Egyptian Dog-Wirt with Spine
Flowers: and the forme E fula Indica, or this indian Spurity of his is a Plant which grown in the
Nature of the Stick which first Shoots or
about the Stick which leaves are forme
large and come where the dioes, for about the
Stillia, administrative the fair to wing faith a white
fuice like with the Tour of the Branches in the
Flowers grown at the Tour of the Branches in the
Branches and the Branches in the
Branches and wellow. When the Flowers are gone a Fauit vellow. When the Flowers are gone, a Freit fucceeds as thick as one's Fift, oblong like a large Sheath or Case; these hang two and two upon a hard crooked Stalk; the Fruit is call'd, in Egypt, Beidelfan, and is cover'd with two Rinds or Barks: the first or outermoth of which, is a green membranous one; the fecond refembles a thin Skin that has been drelled or imported, of a Saf-fron Colour. This Rind continus a stringy or fibrous Matter, the Mole of a Tree, with which all the Fruit is full, in the Nature of a fine which all the rest is the property of a the Cotton, that is very followed. While, which is call'd Houatte, or Mallette. They find in this Cotton Seeds made the thought Pumkins, but lefs, redding, find the but left. The Root is left, though furrounded with Fibres; this last is the autiful to the Eye. The Stalk and Legges are covered with a fort of Wooll, and are tall of Wilks, the roots in Route. Wooll, and are full of Wilk, was grows in Egypt about Alexandria. The Keaves being stamp'd and apply'd as a Cataplatia, the reckon'd proper to re-folve cold Tumours. The Juice makes the Hair come off, and is a Remedy for cutaneous Cases used externally. But it is a Poison given inwardly, for it purges with that Sharpness and Violence, that it causes mortal Bloody-Fluxes.

This Cotton is the Product of the Apocynum majus Egyptiacum flore lutes Spicato, Breyn. Product.

2. 24. Beideleffer, et Beidelfar, Alp. 36. Apocynum Microficium florein, Spicatis. El. Bot. 78. It is classification in the Gardens of the Curious, and refer to the Brine or Pickle leaves them, Sowers in Apocyf. The Leaves are a Politic to for nothing; which is of fame Configuence, before nothing; which is of fame Configuence, be-

The Plando Iperationa fusia, a poisoners Root, brought out of a America for the true Iperationary, and sometimes unbappily used as such, is the Root of another Species of this Plant, the Apocynium Emetum Salicit latteri folio umbellatum steribus Amantis, Plank, Alm. 36. Apocynium Canadense angustatium stere Amantio, Hort. Mess.

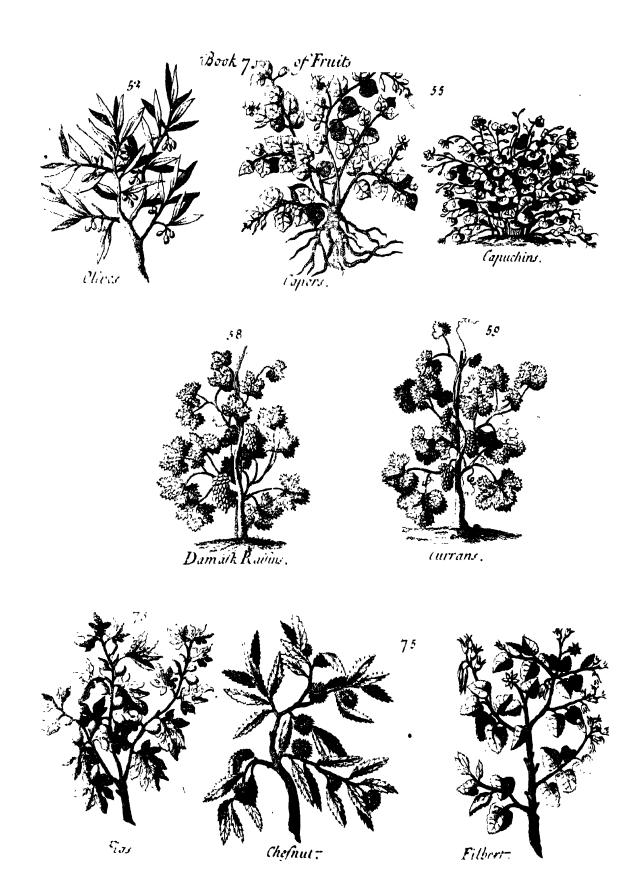
52. Of Olives.

The series three Spies of Pamer. In Since, and according to the Laurent Pamer. It is a series they come. Those of Pamer and the series in Goodness are the Spinish Olives; and the shird Sort are the Present Olives; which are also the Picheline, or the Pauline, and vary improperly Andre Olives; for they are not brought from thence.

The Tree that bears the Olives is usually small, as may be seen by the Cut of it. As to the Leaven, they are thick and green, the Flowers white, and the Fruit green at the Beginning, but reddish when ripe. I shall not take up your Time to describe the several Works that are made of the Olive Wood, but content myself only to speak of the Oil that is made from the Olives, and the Manner in which they pickle them for eating. As soon as the Research see that the Olives are

As foon as the leading fee that the Olives are ready to be pathed for langing, which is about June and July, there gather them, and carry them to Market as the Country People with us do Cherries. There would preferve or pickle them, throw which into fresh Water, and after they have lain them from Times they take them out, and put them in Brine, which they have made with Potaless, and the Ashes of burnt Olive Stones, or Line; and other they barrel them up, according to what Such best fits them, with a Brine or Pickle of Salt and Water, upon which is thrown a little Effence or Tincture, made of Cloves, Cinnamon, Corander, Fennel, and other Aromaticks. And the whole Knowledge of managing these Olives depends upon understanding this Mixture, which they keep as a Secret amongst them.

Chale your Alives, especially the Verana, new, right or true, firm, and well cover'd with Pickle; for as foon as well Brine or Pickle leaves them, and grow but and black, and, in a Word, good for hortung; which is of four Configuence, because they are a pictry dear Faure. Her the Simple Cricis, they are as big as a Pigeon's larg, it is paint. They are not but for the Province especially the Philodine Hours, they are recken'd the balt, because it is blanched that Messieurs President, of St. Chime's, knew how to pickle them better than other People, which is perhaps no Mistike, fince those are the finest and best Olives, is they are much greener, and of a better Taste than the Pauline, and other Olives of Provence. They are



of delicate Nutriment, flomachick, pectoral, antifcorbutick, gently loofen the Belly, and are chiefly used in eating.

· Olea enteus, the Olive-Tree, is of a Lemery. moderate Bulk or Size, whereaf there are two Sorts, one cultivated, and the The first is called Oles Serios, by other wild. Ded, both the Banbines, Ray, and Tearnefert, the planted or cultivated Olive, whose Trunk is knotty, the Bark Importh, of an Ash Colour, the the Wood pretty folid, of a yellowith Colour, the Taste a little bitter; the Leaves are longish and narrow, almost like the Willow, pointed, thick, fleshy, oily, hard, and of a pale Green without, and whitish underneath, but without Hair or Down, hanging by short Stalks opposite to one another. There arise betwixt the Leaves, Flowers disposed in white Bunches, that are supported upon Stalks, confishing each of a fingle Leaf, shit in four Parts, that grows narrower, or contracts itself at the Bottom into a Pipe. When the Flower is gone, there follows an oblong or oval Fruit, green, sleshy, successent, which is called Ohva, or the Olive. This is less or bigger, according to the Place where it grows. That which grows in Provence and Languedoe is as big as an Acorn; that which Spain produces is larger than a Nutmeg: Both Sorts have a little acrid bitter Tafte, and contain under the fleshy Part an oblong stony Nut, which has a Kernel enclosed within it. This Tree is cultivated in Spain, Italy, Languedoc, and Provence.

The wild Olive is call'd Olea Sylvestris, by Gerard and Ray; or by Tournefort, and others, Olea sylvestris folio duro subtus incano. It differs from the former in that it is much less in all its Parts, and that the Leaves are much whiter underneath. They grow likewise in the hot Countries, and they pickle them up with Salt and Water to make them at for eating; for as they are taken from the Trees, they have an unfufferable Tafte. They likewise make Oil Olive from them by Expression, as may be seen in Lemmy's Universal Pharmacoperia. This Oil is emollient. anodyne, resolutive, detersive, proper for Bloody Fluxes, and the Cholick. The Olives abound with a great deal of Flegm and effential Salt, which they lofe in being squeez'd, or passing through the Press; the Leaves are aftringent. The Olive Branch was always the Emblom of Pence, as the Laurel is of Glory. There are certain wild Oliver that grow near the Red Sea. that throw forth a Gum very proper to slop Blood, and cure Wounds.

[The Olive is the Fruit of the Olea fation of most Authors; it is common in the hot Countries, and flowers in June. The pickled Fruit is much

total, but is upt to pell and relat the Stomach too much.

The wild Olive is the Oleaster five Olea Sylvestrie. Park. 1438. Olea Sylvestrie. Ger. 1206.

And the Kind mention'd by Lemmy as growing near the Red Seis, and affording a Gum proper to step Blood and heal Wounds, is the Gum Elemy-Tree, as will be seen in its proper Place.]

#### 53. Of Oil Olive.

B Esides the Olives, we have a considerable Trade in the Oil, which is so necessary to Life, that we may bring it in Competition with Bread and Wine. The Way of making Oil Olive is little different from that of Almonds, fince there is nothing else necessary towards the making of good Oil, than after the gathering of the Olives, when they begin to redden, that is to fay, when they are full ripe, which is in December and January, to prefs them in Mills made for that Purpose. The Oil which they produce is sweet, and of a pleasant Taste and Smell; and this Oil is what we call Virgin Oil, the most valuable of which is that of Graffe, Aranumt, Air, Nice, and some other Places. But as the new gather'd Olives do not yield the Quantity of Oil which those do which lie some Time upon the Floor, those who wou'd have a great deal of Oil, leave the Olives to rot, and afterwards press them; but the Oil which they produce is of an unpleasant Tafte and Smell. Some also, to make them yield the more, throw boiling Water upon what remain'd of the first Pressing, which they squeeze over again; and this Oil, made thus, is what we call Common Oil, not varying in Goodness, but according to the Places from whence it comes. The best Common Oils come from Genea, Oneille, and other Parts of Italy and Presence; and the worst comes from Spain, but especially from Majorca and Portugal.

The Choice of Oil is so well known to all the World, it wou'd be useless to insist upon it. And Oil Olive is so much used, that we have no Sort of Commodity whereof we make a greater Consumption, in that sew can be without it; beside that it is of Use in Medicine, as being the Basis of all compound Oils, Cerecloths, Balsams, Ointments and Plaisters. Besides the other great Qualities that are in Oil Olive, I shall not stop to say, that it is a natural Balsam for the Cure of Wounds, being beat up with Wine; and it is of Wine and this Oil, that the Samaritan Balsam, with which the Good Samaritan in the Gospel, heal'd the Wounds of the Traveller, is made, which is a Medicine in Use at this Day, as well with the Rich as the Poor. Oil Olive is

also useful for burning, especially in Churches and the like, because it does not slink so bad as other Oils, besides that it lasts longer; but its Dearness makes it that the Poor cannot use it. We likewife have a confiderable Trade in Nut-Oil, which we have brought us from Burgundy, Touraine or Orleans, which bears a Price, because it is much used by Painters, and other Workmen, as Printers, Rolling-Press Workers, and the like; besides that a great many use it for the Cure of Wounds, as being a natural Balfam. As to its Use for burning, it is a very ill Practice, because it is quickly confum'd, and is reduced to a Coal. We also have considerable Dealings in Oil of Rapes, which we have from Flanders, and a common Sort from Champagne and Normandy. So likewise we have Oil of Hempseed, Camomile and Linfeed from Flanders and other Parts, especially when Train or Whale Oil is dear. Besides the ripe or compleat Oil of Olives, which is, as I have faid, what is press'd out of ripe Olives, and is brought to us frequently from Florence as well as from Genoa, there is the Oil Omphacine press'd out of unripe Olives, for which Reason it is cooling, drying, and binding, used in several Compofitions for strengthening the Stomach, healing Exulcerations, cooling the Heat of Inflammations, and repercushing Tumours in their Beginning; hereof is made Oil of Roses, Omphacine and Oil of Quinces. The Oil of ripe Olives heats and moistens moderately, whereof the old mollifies more than the new, but the last is best for intermal Uses, and loosens the Belly, taken in warm Ale, or the like, to an Ounce. It corrects the Dryness or Huskiness of the Breast, and allays the Pains of the Belly, relaxes the Ureters, cleanses and heals them. It is used with warm Water to provoke vomiting, and cleanse the Stomach. A Linctus is made of it with Syrup of Violets against Hoarseness, Shortness of Breath, and to men Obstructions of the Breast or urinary Passages. It is used in Clysters to loosen the Belly, and mollify the harden'd Excrements. The distill'd Oil Olive is that which is call'd Oil of Bricks, which is a fubtil and piercing Oil, and of great Virtues, but not much used, because it stanks so egregiously, though good in both Gout and Palfy.

[Olive Oil is an excellent Ingredient in Ointments and Cataplasms, intended as Repencia, in which it acts by relaxing the swell'd Part: But it is little used inwardly, because of the greater Sweetness and Excellency of the Oil of Almonds.] 54. Of Soap.

BESIDES the great Confumption made of Oil Olive for Works in which it is necessary, for different Foods and for Phylick, it is the Balis of several Sorts of Soap which we sell; I mem of the best Sorts, the most valuable of which is the Alicant Soap; the next the Carthagena, the third is the true Marseilles Soap; the fourth that of Gayette; the fifth the Toulon Soap, which we falfly call Genoa Soap. All these Soaps are Compositions of Oil Olive, Starch, Lime-Water, and a Lixivium, or Lye of Pot-Ashes, mix'd all together by boiling into a Paste, which is made into Balls or Cakes, in the Form and Figure as they are brought to us. As to the Mixture of their Green and Vermillion I shall say nothing, it being a Secret the Soapboilers keep among themselves; nevertheless I have been assur'd that they use Red Oker, Copperas, and the Caput Mortuum of Vitriol, call'd Colcothar; but as I am not certain, I shall say nothing further of it.

The Choice of Soap is to have it dry, well marbled or flain'd, and true from the Place whence it derives its Name: that is to fay, that fuch as is fold for Alicant, be true Alicant, and fo of the rest. The Toulon Soap shou'd be dry, of a white, tending to a little bluish Colour, cut even, gloffy, and of a good Smell, and the leaft fat or oily that can be. As to the murbled Sort, that which is of a red Vein on the Side, and of a fine Green and Vermillion within, is most esteem'd, because it is best mark'd, of most Use, and the best Sale. As to the Virtues of Soap, they are well enough known; but as few will imagine it is of any great Use in Medicine, I must nevertheless declare, that it is used with Success in the Cure of cold Humours, being disfolv'd in Spirit of Wine; and there is a Plaister composed of it, call'd the Soap Plaister, which has very great Virtues, as many Authors do affirm. Besides the Sorts of Soap that I have been speaking of, there is a Kind made at Rouen, which is made with a certain Greafe that is found upon the Kettles and Pots of the boiling Cooks; but as this is a very bad Soap, I shall say no more of it. We sell a liquid or soft Soap, which we call Black Soap, made at Abbeville and Amiens, of the Remains of burnt Oil; but as this Soap is of a brown Colour, there comes from Holland a Sort fomething like it, but green, because instead of the burnt Oil they make Use of Hemp-Oil, which is green. The Black Abbeville Soap, which we fell in little Barrels, is much in Ute amongst the Cap-Makers, and several other Workmen or Artificers. The green, liquid, or

fost Soap from Holland, is used by several to rub on the Soles of the Feet of such as are in Fevers, and is said to be a Cure; the Use of this ought not to be entirely rejected, since I have known Persons who have been cured by it. But as this Scap is very scarce in France, since none comes there in Time of War, they must content themselves with that of Abbeville.

[The Kinds of Scap we have in Use in Eng-

land are,

1. The Common Soap, which is made of coarse Oil, Sewet, and a Lixivium of Pot-Ashes, of each an equal Quantity, boil'd to the Consistence we see it of.

2. Black Soap, which is made by adding Soot

to the former Composition.

3. Castile Soap; this is made like the common Soap, only a better Oil is used, and it is boil'd to a higher Consistence and better mix'd; this is colour'd in Streaks with Indigo. And

4. Venice Soap, which is altogether white, fomething fofter than the Castile Soap, and made

of the best Oil of any of the four.

All of them are Diureticks and Deobstruents; the properest for internal Use are the Venice and Castile.

#### 55. Of Capers.

Pomet.

CAPERS are Buds of Flowers which grow upon a Plant that is a Shrub, about Toulon and other Parts of Provence, from whence come almost all the Capers we now fell. They likewise come from Ma-

jorca, as you will find hereafter,

We sell several Sorts, that scarce differ but as to their Size, and not from the several Countries from whence they take their Name; for 'tis a certain Truth, that all the Capers eaten in Europe, except those of Majorca, come from Toulon; so that instead of being call'd Nice or Genoa Capers, as they always have been, they ought to be call'd Toulon or French Capers. When they are ready to be gather'd, it ought to be done in four and twenty Hours; for if they are not gather'd exactly during the Time of budding, they open themselves, and are neither proper for pickling or making Vinegar: When the Peafants have gather'd their Capers, before they pickle 'em, they run 'em through Sieves whole Holes are of different Sizes, by which Means they have Capers of feveral Sorts, which nevertheless come from the same Plant. The lesser Capers, and such as have their Stalks on, are the most valued. As to the Majorca Capers, they are little falted ones, whereof there is fome Sale in Times of Peace. At Lyons they eat another Sort of flat Copers, with a

rank salt Taste; yet this Sort being seldom or never demanded, we sell but very sew of them; but much more of two other Sorts of Flowers pickled in Vinegar, one whereof is call'd Manks Hood, and the other Broom, or Broom Buds; which Plants are so well known, they need no Description.

Capparis spinosa fructu minore, folio rotundo; the Round leav'd Caper with Lemery. the less prickly Fruit. This is a little Shrub, furnish'd with crooked Prickles; the Branches are bending, the Leaves round, and fomething bitter to the Taste. It bears Sprigs, or little distinct Stalks, carrying on their Tops fmall Heads, or green Buds, which are gather'd when at their full Growth, before they are blown, to pickle for preferving: When the Bud is full blown, there appear four white Leaves like a Rose, supported on a Cup likewise of sour Leaves, in the Middle of which rifes a Spire that ends in a Bud. When the Flower is gone, this Bud, according to M. Tournefort, produces a Fruit whole Shape resembles that of a Pear, which encloses in its Pulp several small Seeds, lodg'd each in a small Nich or Corner. The Roots are long and thick, from whence the Rind is separated to dry; it ought to be thick, hard, whitish, difficult to break, and of a biting Taste.

The Caper-Tree, or Shrub, is cultivated in Provence, especially about Taulen.

There is another Species or Kind of Caper. which differs from that we have been speaking of, in that it is not prickly, and that the Fruit is larger. It is call'd by Casp. Baubinus, Capparis nan Spinasa fructu majore; the Caper without Prickles, with the larger Fruit. This grows in Arabia, of the Height of a Tree, and retains its Leaves all Winter. The Caper, and the Bark thereof, are both used in Physick, and yield a great deal of essential Salt and Oil. They excite or promote an Appetite, strengthen the Stomach, are aperitive, and particularly ferviceable in Diseases of the Spleen. The Bark of the Root is very aperitive, and proper to open Obstructions of the Spleen and other Viscera, to diffipate Melancholy, and relift Poison. The Pickle is used as Sauce with Meat, and is made of Vinegar, Salt-Water, and a proportionable Quantity of Spirit of Wine, which preserves the Pickle and the Things pickled.

[Capers are the Flower-Buds of the Capparis Rosundiere folio. Ger. 748. Capparis spinosa folio retundo. Park. 1023. The Bark of the Root

is used in Medicine as an Aperient.

The Buds, preserv'd in Pickle, are eaten as a Sauce; they are gather'd for this Use just before the Time of their opening into Flowers, and laid

in the Shade for three or four Hours, 'till they begin to wither, that they may not open; they are then put into a Vessel and cover'd with Vinegar, in which they are suffer'd to lie eight Days; that is then pour'd off and fresh Vinegar put on, and lest for eight Days more; that is then pour'd off and they are put into Barrels with fresh Vinegar, and kept for Use.]

#### 56. Of Bay-Berries.

Pomet. B A Y-Berries are Fruit of the Bigperson at the Beginning, and which
grow browner as they ripen: These Berries are as
well known as the Tree that bears them, of which
it wou'd be needless to give a Description; I shall
therefore only observe, that they ought to be
chosen fresh, well dried, the best fed, and the
blackest that can be; take this Precaution, that
they be not worm-eaten, to which they are very

Subject.

These Berries are of some Use in Physick, but more confiderably with the Dyers and the Farriers. They are much used in Languedoc, where an Oil is made from them, as I shall shew in the next Chapter; and though they grow plentifully in feveral Places of the Streights, yet they are brought to us from Port O Port, of a blackish brown Colour, having a Kind of hot oleaginous Taste. They are cephalick, neurotick, alexipharmick, and anticolick; they mollify, discuss, expel Wind, open Obstructions, provoke Urine and the Terms, facilitate the Travel of Women in Labour, and help Crudities in the Stomach. They are good for the Nerves in Convulsions and Palites, give Ease in the most extreme Cholicks, and take away the After-Pains of Women in Child-Bed; they are used in Powder, Decoctions, Tincture, Spirit, Electuary, Plaister, and Oil; the last of which is made by Distillation, which discusses Wind, cures the Cholick, Cramps, Convulsions, Palies, Pains, old Aches, Gout, Lamenels, Numbnels, Sciatica. Dole inwardly, from four Drops to fix; outwardly, a Drop or two put into the Ear, helps the Hearing. It is also excellent for Diseases of the Skin; as Dandriff, Morphew, fore Heads, Scabs, &c.

Laurus, or Laurus Fulgaris, the Bay,
Lemery. is a Tree which grows usually of a moderate Height in temperate Climates,
but which rises higher in the hot Countries, as in
Italy, Spain, &c. The Stem is smooth without
Knots; the Bark something thick, the Wood porous and easy to break; it bears long Branches,
and its Leaves are the Length of one's Hand, two

or three Fingers broad, pointed, hard, always green, a little succulent, stringy, smooth, and fragrant, of an acrid, aromatick Taste, and a little bitter, tied by short Stalks; the Flowers are each of a single Leaf cut into four or five Parts, of a white or yellowish Colour, succeeded by Berries of the Bigness of a small Cherry, oblong, green at first, but brown as they grow riper. These Berries are odoriferous, aromatick, oly and bitter; the Roots thick and uneven; the Tree grows in hot dry Places, and is cultivated in Gardens; the Leaves are useful in Medicine, and yield a good deal of Oil and volatile Salt.

[Bay Berries are the Fruit of the Laurus vulgaris. C. B. Pin. 460. Laurus domestica tenuisolia. Jons. Dendr. 229. It is common in Gardens,

and flowers in April.

There is another Species of this Tree mention'd in some Catalogues of Officinal Trees, and there call'd the Laurus latifolia; which is the Laurus latifolia platytera Dioscoridis C. B. Pin. 460. Laurus major five lutifolia. Park. 1486. The Leaves of this are more fragrant than those of the common Kind, and have been given in Powder to cure Agues.

The Berries of this are not used in Medicine; the Berries of the common Bay are carminative and discutient; their principal Use is in

Clyfters.]

# 57. Of Oil of Bays.

THE Oil of Bays, or Olium Lau-rinum, is an Oil made of the Bay-Pomet. Berries, by bruifing them and boiling them in Water; when it is cold it is barrel'd up to be transported to several Places. That which is mostly sold in France, is brought from Provence and Languedoc, especially from a Place call'd Calvission, near Montpellier, from whence we have the best; for that of Provence is nothing else but Fat and Turpentine colour'd with Verditer or Nightshade Juice; therefore use none but that from Languedoe, as being the best of all, when it has all its requilite Qualities, which are to be new, well scented, granulated, and of a green Colour, tending fomething towards a yellow; and meddle not with that which is green, fmooth, liquid, and of another Smell than the Bay, such as that of Provence, or what is made at Lyons, Rossen, or Paris, by knavish People, who have no Conscience, but wou'd impose their Rubbish upon the World for a good Commodity. Such are those who counterfeit and sell Rosin for Scammony, Arcanion for Gum Guajacum, fat Pitch for Benjamin, and Kitchen-Stuff discolour'd with green for Oil of Boys, Turmerick for SaffronSaffron-Powder, and Honey boil'd up with a Hodge-Podge of powder'd Roots for Treacle; and in a Word, all Sorts of Drugs sophisticated to deceive the Publick, and to make a better Advantage than their Fellow-traders; which is a Thing I fear too much practifed all over Europe as well as in France.

[The Method of making this Oil is thus: Gather the Berries when ripe, and bruise them in a Marble Mortar, boil them in as much Water as will keep them from burning, and after half an Hour's boiling, put them into a Press; when all is squeez'd out that will run, take out what is left in the Bag, and beat it, and boil it again with more Water, then press as before.

The Oil will be found swimming on the Water pressed out, and must be taken off with a

Spoon, and kept for Use.]

#### 58. Of Damascus Raisins.

THE Raifins call'd the Damascus Raisins, are flat, of the Length Poniet. and Thickness of one's Thumb's End; we have them brought from Damascus, the Capital of Syria, in roundish Boxes. Chuse the newest, largest, and best sed, and beware they are not Calabrian Raisins, as it happens but too often with several Grocers, who make no Difficulty to fell the one for the other, or Jubes flatted, and put up on Purpole in Damascus Raism Boxes, which are nevertheless easy to be distinguish'd, because the Damasous Raisins are thick, large, fleshy, dry and firm, and have commonly two Kernels; they also are of a faint disagreeable Taste, which those of the Calabrian Kind are not, but are of a fat, foft, and sweet sugary Taste, as are also the Jube Raisins.

The Damascus Raisins are much used in Pectoral Ptisans, and Decoctions, and are frequently join'd with Jujubs, Sebestens and Dates; likewife in Syrup of Marsh-Mallows, in the healing Lohoch, Lenitive Electuary, Confection of Hamech, and in the Electuary of Fleawort. Raifms are nothing else but Grapes dipp'd several Times in boiling Water, and dry'd in the Sun. Damafcus Raisins are most approv'd of; but we commonly use those that are prepared at Narbon in France, and out of which there is a strong Spirit extracted, or a good Sort of Brandy; they are endued with much the same Properties as Figs. Take Raifus of the Sun half a Pound, boil them in a fufficient Quantity of generous Wine, pulp them through a Hair Sieve, and add two Ounces. of Hyllop in Powder, of the cooling Species, or Powder of Pearls one Ounce, and make an Elec-

tuary, to be taken to the Quantity of two Drams, in an Afthma.

[The Damascus Raisms are the Fruit of the Vetis Damascena. Hort. Reg. Par. 186, Tourn. Inst. 613. They are the largest, stelly and firmest Raisms we know of, and are the properest of all others to be used in Pectoral Decoctions.]

#### 59. Of Currans.

THE Raisins of Corinth, or Currans, are little Raisins, or Grapes, of Pomet. different Colours, being Black, Red and White, and commonly the Size of the red Gooseberry: The Vine that bears this is low, furnish'd with thick Leaves very much indented, and grows plentifully in a vast spacious Plain that is situated behind the Fortress of Zant in Greece. This Plain is surrounded with Mountains and Hills, and is divided into two Vineyards, in which are abundance of Cypresses, Olives, and Houses of Pleasure, which make, together with the Fortress and the Mount Discoppe, a Prospect persectly beautiful.

When these little Raisins are ripe, which is in August, the People of Zant gather and stone them, then spread them upon the Ground to dry, and when dry'd carry them into the Town, where they are thrown through a Hole into great Magazines, call'd Seraglies; where they are queez'd so close by their Weight, that those who own them are oblig'd to use Iron Instruments to pull them out, and when they are pull'd out they put them into Casks, or Bales, of different Bigness; and to make them so tight as they are brought to us, they employ Men to tread them with their Feet, which they rub well with Oil beforehand.

Sometimes also we have these Raisins from Natolia, Lepanto, Messalongi and Patras, as well as Corinth, from whence they take their Name: The English have a Eactory at Zant, govern'd by a Consul and six Merchants, to carry on their Commerce, which brings in no small Advantage, for they consume more Currans in a Year than all the rest of Europe. The Dutch have a Consul and two Merchants, and the French a Commissary that does the Duty of the Consul and Merchants under one. The People of Zant believe to this Day that the Europeans use these Raisins to dye Cloths, not knowing that they are for cating.

The Fruit is so common upon the Spot, that they sell not for above three Livres a hundred Weight; but they pay as much also to the Venenetians for Leave to export them; so that at Marfeilles they are not sold under nine or ten Livres, according to the Crop and Hazard of the Sea;

the English and Dutch, when the Scas are free, bring them plentifully from thence to Bourdeaux, Rochelle, Nantes and Rouen, where we buy them at an easier Price than at Marfeilles. Chuse such as are the newest and freshest, small and in a close Mass, unpick'd and not rubb'd over with Honey. They open Obstructions, and nourish much, being of excellent Use to restore in Consumptions and Heckicks; they are good in Coughs, Colds, or Asthmas, either in Decoction, Honey, Syrup or Conserve.

Vitis Vinifera, the Wine-bearing Vine, is a Shrub whose Stem, or Stalk, Lemery. is winding or crooked, cover'd with a cracking Bark, reddift, bearing feveral long Shoots, furnish'd with Wires, that creep and cling to the neighbouring Trees or Props. The cling to the neighbouring Trees or Props. Leaves are large, fair, broad, almost round, jagged and cut in, green, shining, and a little rough to the Touch. The Flowers are little, composed usually of five Leaves each, disposed round, of a yellowish Colour, and fragrant. Fruit are round or oval Berries, pressing close one against the other in a thick Bunch, green and marp at the Beginning, but in ripening they become of a white, red or black Colour; and are They are fleshy, full of a sweet agreeable Juice. call'd in Latin, Uve, and in French, Raisins, as we now call them when dry.

When in Spring Time they cut the Tops of the Vines there naturally diffills, or drops, a Liquor in Tear, call'd the bleeding of the Vine, and in Latin, Aqua Vitis: which is aperitive, deterfive, proper for the Stone and Gravel, being taken inwardly: The Eyes are likewife wash'd

with it to clear the Sight.

The Vine Buds, tender Leaves and Clingers, which they call in Latin, Pampini feu Capreoli, are aftringent, cooling, proper for the Flux of the Belly and Hemorrhages, being taken in Decoction; they are likewife made into Fomentations for the Legs, and to procure Rest. The Shoots and Wood of the Vine are aperitive, being made into a Decoction. The Raifins, while green, are call'd in Latin, Agressa, being astringent, cooling, and provoking to an Appetite: when ripe they quicken the Stomach, loosen the Belly, and when press'd become Must, which is afterwards made into Wine.

Raisms are either dried in the Sun or before the Fire, to deprive them of their Flegm, and make them capable of keeping; they are call'd Uva Passa, seu Passala, or dry'd Raisms. There are several Sorts, all prepared after the same Manner as the large, which are call'd Uva Damascena, or Damask Raisms, and the small call'd Uva Combinaca, the Corinthian Grupes, or Currans:

They are all proper to sweeten the Asperity of the Breast and Lungs, to soften the Bowels and relax the Belly, and to promote Expectoration, being cleansed from their Stones, which are astrincent.

The Husk, or Skin of the Grape, which remains after the last Expression, from whence they draw the Must, is call'd in Latin, Vinacea: They throw this on Heaps, to the End that it may ferment and grow hot; then they wrap it round the Member or the whole Body of the Patient afficted with the Rheumatism, Palsy, or Hyp-Gout, to make him sweat, and to strengthen the Nerves; but it sometimes raises the Vertigo, by Means of the sulphureous Spirit that ascends to the Brain.

[The Damascus Raisins were spoke of in the last Chapter, and the Currans, or Carinthian Raisins, are the Fruit of the Vitis Corynthiaca sive Apyrena. J. B. 2. 72. Boerh. Ind. Alt. 2. 232. They are not much used in Medicine, unless sometimes in Broths and Gruels, to ease and relax the Bowels.]

#### 60. Of Jube Raisins.

THE Jube Raisins are a Kind which we have brought from Provence, especially from Requevarre and Ouris! When the Grapes are ripe they gather the Bunches, dip them in Lye made hot, and afterwards put them upon Hurdles, and the like, to dry in the Sun, turning them from one Side to the other, by which Means they dry equally; and when they are dry they put them up in little Chests of white Wood, such as they are brought over in: To answer the Quality requir'd, they ought to be new, dry, in fine Bunches; that is to say, the least fat and stony that may be, but clear and bright, of a sweet Sugar Taste.

There are other Sorts of Raisins, which we call Picardans, which are much less, drier, and skinnier: In a Word, worse than the Jubes. We sell great Quantities of Calabrian Raisins, which are fat and of a very good Taste: As also the Maroquins, which are black Raisins; the Raisins of the Sun which come from Spain, which are those whereof they make their Spanish Wine; these are dry'd red and bluish, and of a very good Taste. The Spanish Raisins, of the lesser Sort, are something larger than those of Carinth.

Beside the Raisins, there is a very great Trade in the different Wines; as those of Spain, Alicant, St. Laurence, Frontignan, Hermitage, Burbataume or Languadoc, and several others; and as great in Brandy, which we have from Cognac, Blois, Saumur, and other Parts; besides which.

there

there are feveral other Kinds of Brandy, made from Beer, Cyder, Fruits, Sugar, Corn, &c. but as they do not properly relate to this Head I

shall pass them by.

The Use of Brandy is so common at this Time we have no Occasion to enter into a Detail of it any further than as it relates to Medicine, in which it is used to strengthen the Nerves, abate Pain, refresh the Spirits, and dispose the Parts to Perspiration. We make from Brandy, by an Alembick, a spirituous Liquor that is clear and transparent, call'd Spirit of Wine; which, if good and true, ought to be white, and, when set on fire, to burn off without any Moissure remaining. The best Way to know whether it is truly designated, is to try it with Gunpowder in a Spoon; if it burne dry, and afterwards fires the Gunpowder, it is an infallible Sign of its Goodness.

[Raifins are the dry'd Fruit of the Vitis Vinifera, J. B. 2. 67. Mont. Ind. 55. brought from different Countries: Those used in Medicine with us are the Raisins of the Sun and those call'd Malaga Raisins; the first of which are not suffer'd to ripen regularly, but the Stalk that supports the Bunch is cut half through when they have attain'd about half their Bigness, so that they receive afterwards but a Part of the Juices they otherwise would; and when they are become dry enough, by the want of Juices and the Heat of the Sun, they are cut down and preserved for Use.

The other Kind, or Malaga Raifins, are suffer'd to ripen naturally, and afterwards dried in the Shade.

In all detergent and purging Compositions the Raisins of the Sun ought to be used; and in all

Pectoral and Vulnerary, the Malagas.

The Wines used in Medicine are ten. 1. Canariense, Canary Sack. 2. Malacense, Melaga Sack. 3. Xeranum, Sherry Sack. 4. Alonense, Alicant Wine, commonly call'd Tent. 5. Portuense, Porto Port Wine, the Red and the White. 6. Ulyssiponense, Liston Wine. 7. Gallicum Album, French White Wine. 8. Gallicum rubrum Claretum dictum, Claret. 9. Rhenanum, Rhenish. And 10. Cretica five Moschatellina rubra, Red Muscadine, which is commonly fold for Tent.]

#### 61. Of White and Red Tartar.

Pomet. TARTAR is a Sort of Stone which Pomet. is found flicking to the Casks of white or red German Wines, and is denominated according to the Place from whence it is brought. The finest Tartar is that of Germany,

because of its Thickness, which is owing to the Time that it remains in the Casks. It ought to be thick, easy to break, white without and brilliant within, and as little earthy or dreggy as may be; and the Red is the better the nearer it ap-The next Sort is what proaches to the former. comes from Prevence and Languedoc, which comes nearest to that of the Rhine. The third Sort is what we now call the Gravel of Lyons, which differs not from that of Paris, save only that it is a little thicker and of a higher Colour. The Use of Tartar, and the Gravel, is for the Dyers, Goldsmiths and Refiners, to whiten Silver; and likewise for several Chymical Operations mention'd hereafter: The White is preferr'd to the Red, as being much better.

#### 62. Of Crystals of Tartar.

THE Cream, or Crystals, of Tartar, is a white or red Tartar reduced to Powder, and by Means of boiling Water converted into little white Crystals, after the Manner as will be shew'd hereaster. The best Cream of Tartar is brought us from Montpellier, and other Parts about Nifmes, where they make great Quantities; but the

last is less fine than that of Montpellier.

To purify Tartar; take good white Crystalline Tartar, ten Pounds, beat it into fine Powder, and diffolve it in fix Gallons of boiling Spring Waand continue the Boiling 'till it is dissolved; then presently strain it hot through a Bag, and stir the strained Liquor constantly round with a wooden Slice 'till it is cold; then let it rest, and in two or three Hours after the pure and fine Tartar will fink to the Bottom of the Vessel, in the Form of a shining Powder. This Tartar is good to attenuate and dissolve gross and tartarous Humours, which cause Obstructions in the Regions of the Belly, Liver, Spleen, Mesentery, Pancreas, Reins and Womb. It is an universal Digestive and Dooppilative, and for this Reason is commonly given as a Preparative to stronger Purgations : and it is good for all fuch as are naturally hot and costive, and do not easily go to Stool, gently opening and loofening the Bowels, without offending the Stomach or disturbing the other Functions of Nature. Dose from two Drams to half an Ounce and upwards.

For crystallizing and making Cream of Tartar: Dissolve what Quantity you please of the best white Tartar, in a large Quantity of boiling Water; which Liquor pass hot through a Bag, into an earthen or glass Vessel; evaporate about half of it away, and then set it in a cool Place to crystallize for two or three Days; evaporate again half the Liquor, and crystallize again, 'till you

have got all the Crystals. What swims on the Top is call'd the Cream of Tartar, and the Shooting on the Sides are call'd Crystals of Tartar. The Virtues of both these are the same with the former, being aperitive and purgative, good for cachectical, hydropical, and asthmatical Persons, and excellent against Tertian and Quartan Agues; and the Dose and Way of giving are the same.

# 63. Of Soluble Tartar, or the Vegetable Salt.

THE Vegetable Salt, or Soluble Tartar, is made from the Cream and Salt of Tartar diffolv'd together; it is lately come into Use, and is faid to be the Invention of Friar Auge, the Capuchin; the Sale of which has been incredibly Take Crystals of Tartar in Powder, eight Ounces, pure Salt of Tartar four Ounces; mix them, and, in a glaz'd earthen Pipkin, put upon them three Pints of pure Spring Water; boil it gently for half an Hour, then letting it cool, filtrate, and evaporate to Dryness, so will you have eleven Ounces and fix Drams of a white Salt, which keep in a Glass close stopp'd for Use: This will dissolve in any cold Liquor, and is call'd the Vegetable Salt; it has all the Virtues of purified Tartar aforegoing, and may be given from a Scruple to a Dram, in any proper Liquor; but because this Remedy is appropriated to open Ob-Aructions of the Liver, Spleen, Womb, &c. and that Iron is one of the chief Specificks for this Purpose, you may by the following Method unite the two Ingredients into one.

#### 64. Of Chalybeated Tartar.

TAKE of the purified Tartar beforemention'd, one Pound; clear Filings of Iron or Steel two Ounces; pure Rain Water, eight Pints; boil all in a clean Iron Kettle, as long as you boil an Egg for eating, or somewhat longer; then pass it thro" a Woollen Strainer, and stir the Liquor 'till it be cool'd, and you shall have a Powder of a Chalybeate Tartar, of a greenish Colour, and shining when dry, containing in it the Vitriol This is incomparably more aperitive of Mars. than the foregoing Preparations, and has all the Virtues of them exalted to a high Degree, and therefore a most prevaling Thing against the Green-Sickness, and other hysterick Diseases; but if you prepare it of the purified Tartar that is foluble, it will eafily diffolve in any Liquor, and so be more fit for Use. Dose from half a Scruple to half a Dram. Note, That the Artist had best prepare the purified Tartar of which this

is made, by itself, because most of what is sold in the Shops is adulterated with Alum or Nitre, or both: Or you may make it thus:

Take of Tartar crystalliz'd one Pound; Rust of Iron, three Ounces; Water, six Quarts; boil all together for half an Hour, or so long as to dissolve the Tartar; strain it hot thro' a Bag into an Iron Kettle, and in twelve Hours it will shoot into brown Crystals at the Sides and Bottom of the Kettle; decant the Liquor, evaporate it half, and set it to crystallize again in the former Kettle: Continue these Operations 'till you have all your Tartar, which dry in the Sun, and keep for Use. It is a good Remedy for Obstructions, especially against Quartan Agues, having all the Virtues of the purified Tartar, but much more powerful. Dose from fisteen Grains to two Scruples, in Broth or other proper Liquor.

#### 65. Of Soluble Tartar chalybeated.

TAKE of Tincture of Mars, one Pint; of the purified foluble Tartar, four Ounces; mix, diffolve by boiling, and evaporate to Dryness; so will you have eight Ounces of a soluble chalybeate Tartar in a black Powder, which keep for Use in a Glass close stopp'd. It has all the Virtues of the chalybeate Tartar before, and of the Tincture of Mars, being powerful to remove all Kinds of Obstructions, cure Cachexies, Dropfies, nephritick Cholicks, Obstructions of Urine, and Stoppages of Terms in Women. Dose from ten Grains to thirty.

# 66. Of Emetick Tartar.

TAKE purified Tartar, or Crystals of Tartar in Powder, four Ounces; Spirit of Urine, or Sal Armoniac, as much as to cover it two Inches; mix and dissolve; then add Glass of Antimony in fine Powder, one Ounce; pure Spring Water, ten Ounces; boil in a Sand Heat seven or eight Hours, putting in more Water as the Liquor consumes; then filtrate and evaporate to Dryness. Or thus; Take of the soluble Tartar, four Ounces; Glass of Antimony in fine Powder, one Ounce; fair Water, a Quart; mix and boil seven or eight Hours, putting in more Water as the Liquor consumes; then filtrate and evaporate to Dryness, so will you have a grey Powder, which is a good Emetick.

It is a most powerful Thing against chronical Diseases, disposing the Patient to Health; it prevails against melancholy Madness, Frenzies, Deliriums, and particularly against all inveterate Pains of the Head, whether *Idiopathetick*, or by Consent of Parts; it is powerful against the Ver-

tigo, Epilepsy, Apoplexy, Disticulty of Hearing, Ringing and Noise in the Ears, Loss of Memory, Nauseousness and Loathing at the Stomach, Weakness thereof, Want of Appetite, Wind and Pain in the Stomach and Bowels, the Yellow Jaundice, Dropsy, tedious and long continued Tertian and Quartan Agues, putrid and acute Fevers, Poilon immediately received, a bilious Pleurisy, and all Diseases arising from Choler, virulent Dysenteries, and the like. It is an Emetick that works with little Violence, and may be given from five Grains to fifteen, in Mutton, Chicken, or Veal Broth.

#### 67. Of the Distillation of Tartar.

THE Distillation of Tartar is made by the bruising white or red Tartar to a Powder, and putting it in an carthen Retort, to draw off, by the Force of the Fire, a Flegm, which is a white Water, without Taste, and is to be thrown away. When the Flegm is separated, there comes over a reddish Water, which is the Spirit of Tartar, and after that a black Oil that is foetid and very thick, which is what we call black Oil of Tartar, or Oil of Tartar by the Retort. That which remains in the Retort like Coal, after having been calcin'd and whiten'd, by the Means of hot Water, is made into a very white Salt, which is the true Salt of Tartar. The Spirit of Tartar rectified, that is to fay, distill'd or drawn over again, is very proper to cure the Epilepfy, Palfy, Althma, and Scurvy. The Dose is from one Dram to three, in a convenient Liquor.

The black Oil of Tartar by the Retort is admirable for the Cure of Scabs, and is a good Medicine in all the Cases before-mention'd; but as it is too feetid, they rectify it with dry'd Clay before they make use of it. The Salt of Tartar is necessary to make the vegetable Salt with; and is beside something considerable in Physick, as well to take out the Tincture of Vegetables, and to make the white Oil of Tartar, call'd the Oleum Tartari per Deliquium, or Liquor of Tartar.

Most of those who make the Salt of Tartar never trouble themselves about drawing off the Spirit or Oil, but only calcine the red Tartar over a Coal Fire, 'till it comes to a Whiteness, and so extract the Salt, and put it up into Bottles for Use. The true, fix'd, or alkaline Salt of Tartar ought to be pure, white, dry, piquant to the Taste, attended with a little Bitterness; and when it is thrown on a Coal Fire, not to sparkle at all.

Abundance of Chymiss, especially the meaner Sort, sell a Salt of Tartar made with Salt-petre,

which takes the Eyes of those who know no better, in that it is extremely white; but the Use of it is very improper in the Place of true Salt of Tartar; the Cheat is easy to discover, because this will sparkle upon the Fire, which the true will not do.

They make of the true Salt of Tartar, after they have set it in a Cellar, a white clear Liquor, which is what we improperly call Oil of Tartar per Deliquium; for it is only a dissolv'd Salt. Those who would make this Oil, may take the calcin'd Tartar, and place it in a Cellar or Vault, in a Glass hung up in the Air, and the Oil which slows from it is clear and fine as if it had been made from the Salt. There are some People who make this Oil by dissolving Salt of Tartar with Water, and sell it for true Oil; but it is weaker than that made the true Way, and is something reddish.

This Oil has the same Virtues with the Salt, as it is indeed only the Salt in a Liquid Form. The Dose is from ten to thirty Drops.

#### 63. Of Tincture of Salt of Tartar.

THE Tinature of Salt of Tartar is made of Salt of Tartar that has Pomet. undergone the strongest Degree of Fire, and afterwards is dissolv'd in Spirit of Wine tartariz'd, which, after it has stood in Insusion some Time, is pour'd off, or decanted into a Bottle to be stopp'd and kept for Use. This Tincture, when rightly prepar'd, ought to be of a good Red. It is used in Physick chiefly for the Scurvy, and to cleanse the Blood. Dose from twenty to forty Drops. It is observable, the better Colour this Tincture is of, the better it is prepar'd; and the older it grows, the more decay'd and fainter the Colour is.

# 69. Of Tartar Vitriolate.

Magistery of Tartar, or Tartar Vitriolate, is composed of Salt of Pomet.

Tartar, or Oil of Tartar per Deliquium, and good Spirit or Oil of Vitriol mix'd together, and dry'd by a Sand Heat to a very fine white Salt, which ought to be as dry and light as possible; but take care that it be not made of Cream of Tartar boil'd in Spirit of Vitriol, as happens too often, and sometimes of Salt-Petre or Crystal Mineral: That made with Cream of Tartar is easy to discover, when not in Powder, by the Hardness of the Grains met with in it; and the last, because it will spark'e on the Fire, and easily dissolve. This is frequently used in Physick as a good Aperitive, &c. and ought to

be kept in a Glass Vial close stopp'd, because it is apt to run to Water.

70. Of the Volatile Salt of Tartar.

Pemet The Volatile Salt of Tartar is made from the Lees of White Wine express'd and dry'd in the Sun, or otherwise, put into a Retort and distill'd with a gradual Fire: Mr. Charas was the first who prepar'd this Salt in the true Manner. This Volatile Salt is of a strong diaphoretick Nature, but is more particularly aperitive and diuretiek; it ought to be very white, and of a Smell almost as quick and penetrating as the Volatile Salts of Animals. It may be given to five or six Grains in good Wine or other Liquors.

# 71. Of the Gravell'd Ashes.

THE Gravell'd Assess are the dry Wine Lees calcin'd; that this may have the due Quality it ought to be in a Stone, new made, of a greenish white Colour, and of a saltish bitter Taste. This is used by the Dyers and other People, that have occasion for it; and the best is that which comes from Burgundy, because it is made of the best Wine Lees, and therefore must needs be much better than what our Vinegar-Brewers make.

As this is Wine Lees calcin'd, they make a Salt from it by Means of hot Water, which has the very same Virtues with Salt of Tartar, except that it is more corrosive, as well as the Oil per Deliquium that is made from it. This is also employ'd with quick Lime to make a Salt, which, after it has been sus'd in a Crucible, is cast upon a Stone, or into a Bason, and after it is cold, is cut into little Tablets, and put into a Bottle well stopp'd; and these little Stones are true Caustick Stones. There are some likewise made with Oak-Ashes, Alum, and quick Lime, by the Assistance of hot Water and Fire; and these are call'd Velvet Causticks, because they operate more gently.

Tartarum, or Tartar, is a hard sto-Lemery. ny or crusty Matter, which is found sticking to the Insides of Wine Casks: This Tartar is composed of the grossest and most saline Part of the Wine, which is separated by Fermentation, and harden'd to a stony Substance on the Sides of the Cask. There are two Sorts of Tartar, one call'd White Tartar, that is made from White Wine; and the other Red Tartar, that is made from Red Wine.

The White Tartar is separated in much less and thinner Pieces than the Red Tartar, but is much finer, and fuller of Salt. Chuse the thickest,

heaviest, and most brittle, of a greyish or asticolour'd White, clean, crystalline, and shining within, and of a sharpish pleasant Taste.

The Red Tartar is divided into large thick Pieces, being to be chosen pure, dry, reddish and weighty; this Tartar is coarfer than the White. but of the fame Tafte, and contains the fame Principles, but less of Salt; the best Sort comes from Germany, Languedec, and Provence. White Tartar is purified by boiling in Water, and straining it thro? Woollen Bags, then evaporating and crystallizing the Liquor, which makes what we call Crystals of Tartar; the Scum or Cream that floats on the Top during the Evaporation, is call'd Cream of Tartar; this when dried, is confounded with the Crystals, which ought to be in little clear shining Bodies, pure, white, heavy and dry, of a sharpish agreeable Taste: It is used to blanch Wax, and also to clarify Whey, a Dram being sufficient for a Pint; this White Tartar yields a great deal of effential acid Salt, and fome Oil.

Red Tartar yields lefs Salt than White, but more Oil and Earth; they both make Vinegars when dissolv'd in Wine. The Crystals disser not from the Tartar itself, but that they contain less earthy Parts in them. All the Tartars from Wine are aperitive, and something laxative, open Obstructions, and excite to Urine, allay or abate Fevers, and are proper to dissolve tough Flegm in the Glands. The Dose of Tartar depurated is from a Dram to three Drams.

# 72. Of German Black.

W E have brought from Mayence, Francfort, and Strasbourg, 2 Black in Stone and Powder, which is made from Wine Lees burnt and cast into Water, and, after having been dry'd, ground in a Mill and fifted, having burnt Ivory, Bones, or Peach-Stones added to it; and when they are all well ground and mix'd together they make what we call German Black. The best is such as is moist call German Black. and of a shining black Colour, and has been truly prepar'd with burnt Ivory, which exceeds that made of Bones and Peach-Stones, and the worst Sort of Lees; for it is on the Goodness of the Lee that the Fineness of the Colour depends. There are other Blacks made at Troyes, Orleans, and Paris, which bear the Name of the Places where they are made; they are all of them of no other Use than for the Rolling-Press Printers.

[Tartar confifts of the acid, oily, and earthy Parts of Wine, and the Lees of Wine are Tartar attenuated, and divided by Fermentation? Tartar may therefore be call'd the Essential Salt of Wine.

White Tertar contains the greatest Proportion of Acid, and Red Tertar most Oil and Earth.]

73. Of Figs.

Pomet. I Colours; to wit, the Green, the Violet, the White, and other Colours; but of all the Sorts we fell none but the Violet and the common Fig. When Figs are ripe, the People of Provence gather them, and dry them upon Sieves and Hurdles. We distinguish the Provence Figs into three Kinds, viz. the Violet, the Marfeilles Fig in small Frails, and the great or fat Fig. The Violet Figs ought to be large, dry and fresh; those of Marfeilles, small, new and dry; and the great or fat Figs as like those of Marfeilles as possible, not tough, and in small Frails of different Colours.

The Fig-Tree is so common in hot Countries, that there is not any other so frequently to be met with either about their Houses or in the Fields: It has a large Trunk, full of Branches spreading largely abroad; the Wood is very spungy, of a white Colour, the Leaves pretty much resembling those of the Vine, but are a great deal larger, and pour forth a Quantity of milky Juice. Fruit comes from the Wing of the Leaves, being three-corner'd, and of the Shape of a Pear, in which are contain'd Flowers by the fingular Contrivance of Nature, as Valerius Cordus first of all observ'd; these Flowers are single-leav'd, small, concave like a Spoon, ending in a small Point, and of a whitish Colour, inclining to a Purple, with a Pointal or Rudiment of a Seed in the Cavity of the Flower; the Fig is outwardly of a greenish Colour, inclining to a Violet; these being ripe and dry, stop Catarrhs or Defluxions falling upon the Uvula and Windpipe, and qualify the acrimonious Serum trickling down upon the Lungs. In Portugal, especially in the Kingdom of Algarve, there is a hot, fiery, inflammable Spirit drawn from Figs by Distillation, which they use instead of Aqua Vitæ, or Brandy.

 and Pellitory Leaves, of each a Handful; Fenugreek Seeds, two Ounces; twenty fat Figs; Flowers of Camomile and Melilot, one Pugil; boil them in a fufficient Quantity of Water, and then pulping or forcing them thro' a Hair-Sieve, add of the Ointment of Marsh-Mallows two Ounces, of the Oil of Worms one, and make a Pultice to help Suppuration.

Ficus, Ficus Communis, or Ficus Sativa, the Fig-Tree, is of a moderate Lemery. Height, whose Stalk is not strait, but the Bark is smoother than ordinary Trees, of an Ash-colour, the Wood is spungy and soft, and white within; the Leaves are large, broad, thick, cut in five Divisions or angular Parts, like those of the Vine, but much larger and harder, rougher and blacker, hanging by a Stalk that throws out a milky Liquor when broke. This Tree neither bears Flower nor Husk nor Shell that appear; but many Botanists pretend that the Flowers are enclosed in the Fruit, and that they are certain Threads like Stamina found in the young Figs.

This Fruit, when no bigger than a Pea, is call'd Groffolus; when something larger encreased, but yet not ripe, Groffus feu Groffa; and when entirely ripe, Ficus: It grows of the Size and Shape of a Pear, of a greenish Colour, whitish without, and reddish within; fleshy, succulent, viscous, and of a fweet delicious Taste: It affords a flat and almost round Seed. The Roots of the Tree are numerous, long, fair, hard to break, fupply'd with Filaments of a yellow Colour. They propagate the Figs presently in temperate Climes, but the best grow in Languedec, in Provence, and other hot Countries. There are two Species, which differ in Figure, Size, Colour, and Taste; they are all hard of Digestion, because of their viscous and tough Substance: When they are dry'd in an Oven, they are call'd dry'd Figs, Caricæ or Ficus Passæ; then they ferve for Food and Phylick, being easy of Digeftion, fince they have loft great Store of their vifcous Flegm by the Heat of the Oven in drying: Figs yield a great deal of Oil and effential Salt; these soften the Acrimony of the Humours, fortify or strengthen the Breast, hasten the Birth, ease Diseases of the Kidneys or Bladder, being taken in Decoctions, or else they relieve fore Mouths and Throats in Gargles, or apply'd externally to any Part, give Ease and promote Suppuration.

Ficus Indica, vel Ficus Indica foliis Mali Cotonëi similibus, fructu ficubus simili in Goa, according to C. Baubinus. This is a Tree that grows near Goa in India; it is large, very high, and thick, extends its Branches very wide, from whence arise Fibres, like those of the Cuscuta, of a

golden

golden Colour, which being come to the Ground, grow strong and take Root by little and little from the great Trees, which stretch themselves over all the new Filaments, that adhere likewise to the Earth, and produce Trees after the fame Manner, and fo on perpetually; fo that these Rigs multiply in such a Manner as to fill a large Country with Trees of such a large Kind and Height, that they form a spacious massy Forest, which becomes a great Relicf and advantageous Shade against the Sun-Beams. The Leaves of the young Branches are like those of the Quince, green without, and white and lanuginous underneath, and ferve for Food for the Elephants. The Fruit of the Amall Fig is made like ours, but red as Blood without and within, fweet and good to eat, but nothing like the European Fig. The Indian Fig is moistening, cooling, pectoral, and the Bark of the Tree ferves for Cloathing.

[Figs are the Fruit of the Ficus vulgaris, Park. 1494. Ficus. communis, C. B. Pin. 457. Externally they are an excellent Suppurative, and internally are much efteem d as Pectorals and De-

tergents.

The other Species, mention'd by Lemery, is the Ficus Indica arcusta, Park. 1499. It is of no Use with us, being never brought hither.]

# 74. Of Brignole Prunelloe, and Prunes.

Besides Figa; we have considerable Pomet. Dealings in the Brignole Prunelloes, which are brought from Provence, especially Brignele, a little Village near St. Maximin, from whence they take their Surname. These Prunelloes are brought in long Cases, but more usually in Boxes that are cover'd with white Paper, artificially cut; they ought to be dry, fair and sleshy; when the Paper that covers them is dry, it is a certain Sign that they are good.

We fell also Abundance of Prines, as the large and the small, St. Catharine Prines, and the little black Damask, and St. Falian Prine, which we have from St. Maure's, Chinen, and other Parts of Touraine. Besides, we fell a great Quantity of Prines, which are longish and come from Bourdeaux, and several others from Monturel, Perdrigon, Imperial, and in general all Sorts of Fruits, dry and liquid, which we have brought from other Parts, but especially Tours, as dry'd Pears, Apples and Cherries, with Variety of others that are kept for eating in Lent. The Choice of all these Fruits is to have them new in Boxes, or little Chests, and as fresh and good at the Bottom as at the Top of the Parcel.

Prunum or Prune, is a Fruit of feveral Kinds, according to the different Lemery. Places where it grows, both as to Shape, Size, Colour and Tafte; but they are all so well known, I than only mention the black Damask Prune, which we use in Physick, call'd in Latin. Pruna partia dulcia sero-carulata, the little, blueifts, black fracet, Princy; they are of a moderate Size, round, fleshy, cover'd with a black Skin; their Substance red, succellent, not sticking to the Stone, of a good Smell, and sweet pleafant Tafte; the Stone is finall and longith, enclosing a little Kernel, almost round or oval, of an agreeable Taffe, inclining to bitter. These Prunes now upon a Kind of Plum-Tree, of a moderate Height and Size, call'd Prunus fativa fructa parvo dulci atro-carules; the Leaves are longish, pretty broad, flightly indented on the Sides; the Flower is composed of five Leaves, disposed like a Rose. of a white Colour; this Tree is cultivated in the Gardens.

The Damalk Prunes ripen towards Autumn, and are to be chosen pretty large, well fed, ripe, new gather'd, of a good Tafte and Smell; they yield a great deal of Flegm, Oil and essential Salt; they dry great Quantities of these Prunes in their Ovens about Toursiue, and near Bourdeaux, and disperse them all over France and other Parts in the Winter. That which is call'd the Prunelle ought to be taken fresh, fleshy, dry, soft and of a good Tafte. Fresh or dry'd Damask Prunes are moistening, emollient, laxative, being taken in Infusion, Decoction, or eaten in Subflance. They find fometimes upon fome Sorts of Prunes, a white, shining, transparent Gum, like Gum-Arabick, which the Merchants frequently mix among that Drug, as it is like it in Colour and Virtues. It is given in Powder or Muci-

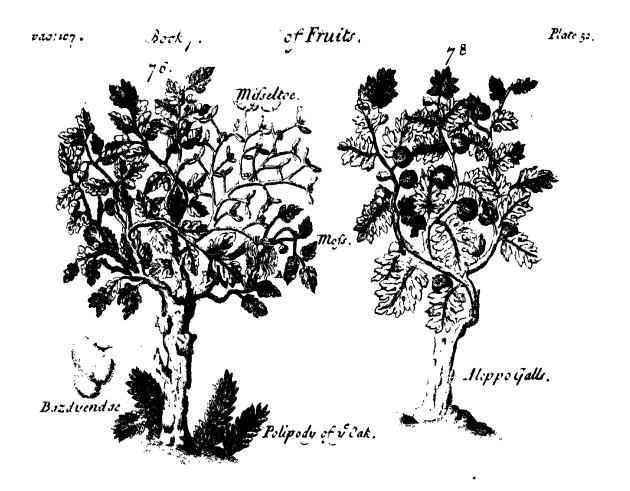
[The Prunellocs of Brignole are the dry'd Fruit of the Prunus Brignoniensis fructu suavissimo, Tour. Inst. 632. Prunus Brignolensis, Rup. Flor.

jen. 106

The Damask Prune is the Fruit of the Prunus fructu magna dulci atro-cærules, Tourn. Inst. 622. Boerh. Ind. alt. 2. 241.

And the common Prune is the Fruit of the Prunus fructu parvo duki atro-cæruleo, Tourn. Inst. 622. Prunus domestica, Ger. 1311.

To these ought to be added the Prunellus of the Shops, the common Sloe-Tree. Prunus sylvestris of Garrard, Parkinson, &c. of the Pulp of the Fruit of which we make the Conserve of Sloes, and the inspissated Juice of which is the Acacia Germanica, which at present is generally sold for the true Acacia.]







75. Of the large Chesnuts, call'd by the French Marons

have from the Oak, is the Millelton, which is an Except that is from growing to the faid Tree: This Production process of the faid that the believe of the faid the faid the faid the believe of the faid that the believe of the faid the faid the believe of the faid the faid the believe of the faid the believe of the faid the believe of the faid the faid the believe of the faid the faid the believe of the faid the believe of the faid the believe of the faid the faid the believe of the faid the believe of

People as well for its Beauty as its Profit, and fo well known to every Body, we may be excused a Defention. The Wild Chefnut is call'd Gastanea 1,'ceftris, quæ peculiariter Caftanea, or Caftanea n more, the leffer Chefnut: This differs no otherwife from the former, but at at grows wild inflerd of being improved. It is much tell in Sine, and the Fruit smaller. It grows plentifully in the Line fin, in Languedoc, and supports a great many Persons in the World, and especially the Poor. The large Sort of Chejnuts that grow in the hot Countries are called Marona, or Marons, most of which are brought from the livarez and the Limofin. Chuse such as are largest, the most sleshy, and of the best Nutriment; they all abound with a good deal of Oil and a little Salt. 'The Chefnuts, especially the small, are aftringent, and the Rund is used to stop the Flier Albus in Women.

[ ( he fruits ate the Fruit of the Costanea Satica,

Gei Fuk. Sc. The Wild Cheffire, mention'd by Lemery, is the Castania fylvistris, Jons. Dandr. 118. Cafturca filippies que pechanne Caftanca, C. B. Im 419.

The first is cultivated in Walles, &c. the other

is wild in fome of our Woods ]

76. Of the Oak

THE World, as well because of its Pomet. Durableness, as for the different Uics made of it. This Tree is the Emblem of Virtue, Strength, Firmness and Duration, and was therefore by the Antients dedicated to fip ter. Some

pretend that this Tree is a mortal Enemy to the Olive and the Walnut-Tree; fo that neither of them can live near it.

The first Thing, and the most considerable we have from the Oak, if the Misselton, which is an

The Misseltoecontinues always green during the Time it remains upon the Tree, Chuse the largest, heaviest, and best ted: You may know if it have by the deep Colour within, but the furgit Was is to fee that fome Part of the Oak hangs to it. They attribute a great many Virsues to the Millieluse of the Oak, and the Antients revered it and held it facred as well as the Julius Cafar and Pliny fiv, that Tree itself. the Druids affembled themselves under these Trees to perform their Devotion; these Druids in libited the Countries we now call Ville de Dicui, near Chartres, whence it is evident that there have been Oaks which bore Misseltoe in France.

This Misseltoe, taken inwardly, is esteem'd an excellent Remedy against the Palsy, Apoplexy, Falling Sickness, and Worms: It is also an Ingredient in many Compositions for external Use, as Ointinents, Plaisteir, &c. as a Resolvent. The Bernes are acrid and bitter, and their Juice is good to ripen Algelles, and haften their Suppuration.

Miffeltoe is also the Balls of the Pulvis ad Gut-

Irrestant growing upon many other Trees is well such Dar; but its Virtues are supposed not Tree Party of the Ohe contrin a great deal

of Oil and affinited Sale; the Birk and I encs are aftringent and refolvent, good in the Clout, Sciatica and Rheumstifms, used in Comentations, and taken inwurdly in Decochiens to stop Diar thæas and Hemorrhages.

The second Thing we have from the Oak is a little Plant we call Polypody of the Qak, which is like what we have from Walls: This Sort of Plant grows from Places where the Branches of the Oak are forked, by Means of some small Earth that lights there, and the Water which drops upon it: It grows likewise upon the Stump of the said Tree. We rarely use this Polypody, because it is not so proper, since that is much better which grows upon old Walls, which is the Sort that is brought to us about Paris. Chuse the Root such as is new, plump, dry, brittle, of a reddish, tawny Colour on the Outside, and greenish within; sweet and Sugar-like, inclining something to a Liquorice Taste.

Quercus vulgaris, the common Oak, Lemery. is a thick, strait, durable Tree, spreading its Branches wide; the Trunk is cover'd with a thick rugged Bark; the Leaves are large, longish, and broad, deep slash'd or indented, hanging upon short Stalks; the Flowers are in long Shells or Hulks, composed of little Threads hanging upon one another by a fine Fibre or String; these Husks leave no Fruit behind them, the Fruit growing in different Parts, which are the Acorns; that are about the Size of the Olive, of an oval or cylindrical Figure, contain'd in a hard grey Cup, call'd in Latin, Cupula seu Calix; this Acorn is cover'd with a hard Rind, that is imooth and shining; green at first, but yellowish as it grows riper; within this Rind we meet with a Sort of Kernel, or hard fleshy Seed, composed of two Lobes. The Acorns hang upon the Tree by long or short slender Stalks, and their Taste is aftringent.

All the Parts of the Ouk contain in them a good deal of Oil and effential Salt: The Acorn, call'd in Latin, Glans Quercina, is likewise employ'd in Medicine. Chuse such as are large, and plump, separated from the Rind, and dry'd gently; but take care of Worms, to which they are subject, let them be reduc'd to Powder before using; they are astringent, and proper to appease Wind Cholicks, and the Fluxes of Women new-

ly deliver'd.

Polypodium, or common Polypody, hath a Root taking a very flight and superficial Hold of the Earth; it is pithy and brittle, about the third Part of an Inch thick; within, it is of a pale green Colour, but outwardly a little reddish, and cover'd over with fine thin Scales when it is fresh and green; but being dry, it becomes of a more red Colour: It is knotty, or full of round Knobs, and adorn'd with several small Filaments, like Hairs: Its Pith is sweetish, with somewhat of a sharp, austere, or styptick Taste. The Leaves spring out of the Knots or hollow Knobs of the Roots; they are

single, about nine Inches in Length, and parted into several Jags or Scollops, cut close into the Ribs; they are sharp-pointed, of a light green Colour; it bears no Flowers, but there arise several small Knobs, like Blisters, upon the lower or under Part of the appermost Jags of the Leaves, rank'd in a double Order; they are round, and about the fixth Part of an Inch thick, consisting of a fine Dust, that is first a little yellowish, and turns of a bright Golden Colour: Every Grain of this Dust is a Sort of small Seed-Vessel, being of a round Figure, and membranous, which, when ripe, breaks into two equal Parts, and pours forth several Seeds, so small that they can scarcely be discern'd by the naked Eye.

Polypody grows upon Rocks, old Walls, and antient decay'd Trees; but that which grows upon old Oaks is reckon'd the best; upon which Account Polypody of the Oak is commonly prescrib'd, and is rank'd among the purging Medicines: Yet Dodonaus denies its carthartick Quality; neither ought we to dissemble the Matter, for the Decoction of it scarcely moves the Belly, but the Powder of it does something, being given

from one Dram to two Drams.

This Root contains a great deal of Oil, and no fmall Quantity of an acid Flegm; but this is, as it were, suffocated by the Oil, which is the Cause that it produces no Alteration of Colour on blue Paper, when it is dipp'd in the Infusion There is likewise a large Quantity of Earth extracted from Polypody by a chymical Refolution. 'Tis from this Earth that its styptick and brackish Taste proceeds. The Roots are very properly administer'd in all Distempers proceeding from a faltish Disposition of the Blood; such as the Scurvy, Rickets, and Hypochondriack Paffions; they also help to abate an inveterate Cough, when it is attended with a faltish Spit-They are prescribed in Potions and Apotle. zems.

Take of Polypody of the Oak, two Ounces; Salt of Prunella, one Dram; infuse them in a Quart of warm Water; strain it: To be taken by Cupfuls or Spoonfuls, as an Apozem. Or, take Polypody of the Oak, one Ounce and a half; Elecampane-Roots, three Ounces; infuse them all Night in a Quart of warm Water; in the strain'd Liquor add two Ounces of Calabrian Manna; mix and make a Ptisan to be drank. Take of the Decoction of Polypody Roots, six Ounces, in which insuse two Drams of Sena-Leaves; in the strain'd Liquor dissolve the Electuary of Diacarthamum, three Drams; mix and make a purging Potion. Polypody Roots are used in the Catholick Electuary, the Lenitive

Electuary.

Electuary, the Confection of Hamech, the Pânchymagog Extract-of Hartman; Querectan's Pills of Tartar, and in the Hiera of Coloquintida.

[The Oak, whose Bark, &c. are used in Medicine, is the Quercus vulgaris, Ger. 1156. Quarcus latifolia, Park. 1380. The Mistetoe is the Viscus Quercus et alianum arborum, J. B. 1. 89. Viscum vulgare, Park. 1392.

And the Polypody is the Polypodium unigere,

C. B. Park. &c.

It is to be observ'd, that both these are much more frequently found on other Trees, than on the Oak.

The other Species of the Oak, mention'd in

the Catalogues of Officinal Trees, are,

- 1. The Phagus, five Esculus, Park. 1387. J. B. 1. 2. 74. the Esculent or Sweet Oak, the Acorn of which is eatable, not being so bitter as those of the rest.
- 2. The Cerrus, Aldrov. Dendr. 253. Cerris majore glande, Ger. 1162. Quercus Calyce echinata, glande majore, C. B. Pin. 420. the Bitter Oak. And,
- 3. The Robur tertia Clussis, J. B. 1. 2. 76. Robur sive Galla major altera, Ger. Em. 1348. the Gall Ouk.

The common Oak grows naturally in many Kingdoms; the Esculus is found in Greece and Dalmatia, the Cerrus in Italy, and the last in Smyrna and other Places.]

# 77. Of the Oil of Acorns.

Pemet. Besides the Polypody, the Oak produces Acorns, which are its proper Fruit, and People pretend to make and sell the Oil of them; but as I never could succeed in the making it, I shall only observe, that all the Oil of Acorns that the People of Provence send us, is nothing but the Ben or Nut Oil, in which the Acornhas been insused. The great Scarcity of the true Oil, is the Reason that the World attributes such great Virtues to it, as they do to the Oil of Talck. There may be a true Oil of Acoins drawn by the Retort, but it will be black, and of an ill Smell.

The Oak produces, beside the Acorn, the Misseltae, and Polypody, a Moss which is what we call Ushica, it enters the Compositions of the Cyprus Powders; those of Frachipans and Le Mareshale, or the Farriers Powder, which we have brought from Montpellier. The true Description of making these Powders is unknown to me, which obliges me to refer the Reader to a Description made by the Sieur Barbs in a little Treatise of his printed at Lyons.

78. Of Galls.

**TALLS** are produc'd by a Kind of Oak that grows plentifully in the Pomet. Levant, especially about Aleppo and Tripoli, which are those we call Aleppo and Tripoli Galls: Besides, they are brought from Smyrna. There are also some grown in France, in Prevence, and in Gascoigny, but much inferior to those of the Levant, in that they are usually reddish, light, and altogether smooth; and those of the Levant are prickly, from whence they are denominated the Prickly Galls; they are also more heavy, and are either blackish, or greenish, or whitish. The Variety of these Fruit occasions that they are put to different Uses; those of Aleppo and Tripoli are for dying black, and making Ink; the White for dying or staining Linnen, and the Light French Galls, for dying Silk: All the Sorts are of some Use in Physick, especially the more astringent and flyptick they are; being good to draw together and fasten loose Parts, to dry up Rheums and other Fluxes, especially such as fall upon the Gums, Almonds of the Throat, and other Parts of the Mouth; used in a Decoction, in Water or Wine, they cure Diarrhoeas, Dysenteries, and are good against all Weaknesses of the Bowels: A Fumigation in Claret is good for Women to fit upon, that are troubled with a Flux of Reds or Whites, or falling down of the Womb; as also of the Fundament: The Ashes quenched in Wine or Vinegar, being apply'd, stanch Blood; and the Powder of the crude Galls may be given inwardly from ten Grains to a Scruple, to all the Purpoles aforefail.

There grows upon a Species of Oak in Turky a little reddish Fruit, of the Bigness of the Hazel-Nut, call'd by the Turks, Bazgendge, whose Figure is represented by the Impression of the Oak. The Levantines, especially those of Aleppo, take a hundred Drams of Cochineal, which they call Cormeti; fifty Drams of Bazgendge, and fifty Drams of Tartar; and after powdering them all, they make a very fine Scarlet. This Fruit is very scarce in Francs, for which Reason it is not used there, tho' some of it is frequently sound among the Galls and thrown away, because it is not

known.

Galla, or the Gall-Nut, is an Excrefeence which grows upon an Oak in Lamery. the Levant, whose Origin proceeds from this, that certain Insects bite the tenderest Part of the Tree; so that an Humour slows out into a Shell or Bladder, which fills and hardens as it grows on. There are several Sorts of Galls, that differ according to their Size, Shape, or Co-

our, and by the Surface of them being smooth or ugged; they are usually round, and as big as the common Nut, some as the Filbert, rough or prickly, white, green, or black; the best comes from Aleppe and Tripeli. Chuse the best sed and weightiest.

There are also Galls grow in Gassign, and in Processes, which differ from those of the Louans, being smooth, light, reddish, and affording a less Tincture. They are astringent, and enter several medicinal Compositions; as Plaisters, Oint-

ments, Injections, Fomentations, &c.

[The Species of Oak from which we have the greatest Quantity of Galls, is the last of those enention'd at the End of the foregoing Chapter; the Insect whose Puncture produces them, is a small black Ichneumon Fly, which leaves its Egg within them, which afterwards hatches into a Maggot, and from that, after a Week's Rest in its Chrysalis State, becomes a Fly, like that whose Egg produced it.

#### 79. Of Agarick.

AGarick is an Excrescence that is found upon the Trunks and large Pomet. Branches of several Trees, but chiefly upon the Laich-Tree, call'd by the Latins, Larix, and upon feveral Sorts of Oaks; the best is white, light, tender, brittle, and of a bitter Taste, pungent, and a little styptick; and this is the Agarick the Antients used to call the Female: As for that which is term'd the Male, it is usually heavy, yellowish, and woody, and ought to be entirely rejected from physical Uses. The best Agarick is that from the Levant, it being abundantly better than what comes from Savey or Dauphiny. We have likewise some from Holland, that is rasp'd and whiten'd on the Outside with Chalk, which ought also entirely to be rejected; in short, none is fit for Use but that of the Larch-Tree and what we have from the Levant: The Dyers use this to dye Black with.

The Agarick of the Oak is generally reddifferend heavy, and of very little Value; for which

Reason I shall say nothing more about it.

Agarick was a Medicine so samiliar to the Antients, that they made use of it not only for purging Flegm, but likewise in all Distempers proceeding from gross Humours and Obstructions; such as the Epilepsy, Vertigo, or Giddiness of the Head, Madness, Melancholy, Assima, and Distempers incident to the Stomach, and the rest of that Kind; yet they complain'd that it weakan'd the Bowels, and purg'd too churlishly; upon with Ginger, and gave it, to a Dram, in Oxy-

mal, or Honey of Squills. It is prescrib'd in Posseder, the rarely, from a Dram to two; but in Decection, or Infusion, from two Drams to half an Ounge.

By a chymical Diffelution it passeth almost all away into Oil: It yields no volatile Salt, but abounds with a Sort of scaly Earth, and an acid Flegm; the Insusion of Agarick makes the blue Paper of a purple Colour. It ought to be corrected with Cloves, Cinnamon, Mace, Mint, Wormwood, and others of this Kind. Its Slowness in working may be help'd or promoted with Scammony and Calomel; or it may be wet in some purging Decoction made of Asarabacca, Sena, and other Purgatives, and then dry'd again, and form'd into Lozenges, adding Balsam of Peru, or Oil of Cinnamon to correct it.

These Lozenges are commonly kept prepar'd in the Shops: But we must not forget to take notice, that Lusitanus admonishes us to make use of the Troches of Agarick, or Lozenges, while they are fresh, and new made, lest their Virtue be weaken'd by long keeping. Besides the Troches, there is an Extract and Rosin prepar'd from Agarick: It is likewise used in the Confection of Hanceb, Hiera Picra, the Blessed Extract, and Pills of Eu-

pborbium.

[Agarick is the Agaricus five Fungus Lacricis, C. B. Pin. 375. Agaricum, J. B. 1. 268. It is cover'd with a yellow Bark, and is white within; it tastes sweet at first, but butter after a Moment's holding in the Mouth; this is

The Female, which is used in Medicine.
The Male is yellow, hard, and woody, and is used in Dying.]

# 80. Of the Confestion of Hamech.

Agarick being one of the Ingredients of this Composition, which we Pomet. have brought from Montpellier, together with Consect of Hyacinth and Alkermes, Treacle and Mithridate, I thought it it not improper to mention it in this Place: Tho' it is almost out of Practice in some Countries, it is a good Medicine if faithfully prepar'd; however, I shall only give you the Receipt, and leave you to consult the Method of preparing it in the Dispensatories of Mr. Charas and others.

Take Polypody of the Oak, Raifins stoned, Damask Prunes, of each four Ounces; Citrine, Chebulick, and Indian Myrobalans, Violet-Seeds, Coloquintida, White Agarick, Sena, of each two Ounces; Wormwood, Thyme, of each one Ounce; Red Ross, Aniseed, and Fennel, of each six Drams; Juice of Fumitory depurated, a Quart; Sugar and pure Honey, of each

thice

three Pounds; Cassia and Tamarinds pulp'd, and pure Manna, of each sour Ounces; Rhubarb, White Agarick, Mexandrian Sena, of each six Ounces; the five Myrobalans and Epythymum, of each six Ounces; Ginnamon and Ginger, of each two Drams: Mix all together according to Art, and make a fost Electuary, working it well and preparing it truly, and it will keep a long Time. This Confect, thus artfully made, is of a shining black, and a good Consistence. This, with the other before-mention'd, we reckon the five great Compositions of the Shops.

We fell likewise dry'd Morells and Truffles, and black Sow-bread, which are brought from Provence and Languedoc, with the Buths of Tuberose, Ranunculus's, and Junquils, which come from Italy, Provence, and some from Confantinople, together with Jews-Ears, which is a fungous Excrescence found on the Stumps of Elder-Trees, before their Leaves appear, something in the Form of an Ear, from whence it had its Name, &c. And they bring us from St. Fleur in Auvergne a certain grey Earth, in little Shells, which is what we call Porelle, and the People of that Country tear it from the Rocks: This Earth is lodg'd there by the Winds, which carry the Earth

upon the Rock, and by the Rain and the Sun is calcin'd after being wet. The Use of it is to make Orfeille, of which mention was made in the Chapter of Turnfol. We fell, belides, a certain Herb which we call Press, and the Botanists Rauifetum, or Horse-tail, which the Cabinet-makers, and Artificers in Wood, use to polish their Works withal.

[The Confection of Hamech is now entirely out of use.

The Jews-Ears are in great Esteem among the common People, as a Remedy for Sore Throats; but I have observ'd that they are never seen in the Shops: What is constantly sold under that Name, is the Fungus membranaceus expansus, R. Syn. Ed. tert. Pag. 18. which our Druggists employ People to gather from the old Water-Pipes about Islington, and elsewhere.

The true Jews-Ear is the Peziza Auriculum referens, R.Syn. 195. Fungus membranaceus Auriculam referens five Sambucinus, C. B. Pin. 372. of which I have fome fair Specimens, which I found about three Years fince on the Elders near the Neat-Houses in the Way to Chelsea, and which are entirely different from what is sold under that Name.]

# The End of the Book of FRUITS.

# BOOK the Eighth

# Of GUM.

# PREFACE

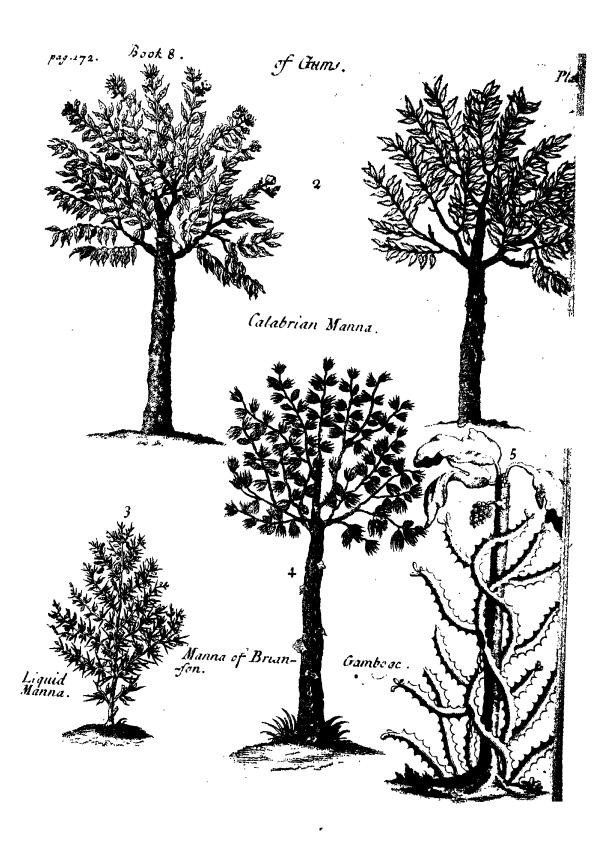
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Of the Manna with the state of add

See in a miraculous Manner, and were deliver d from their Enemies, the samine pursued them into the Defart, and stey murmur'd against Mages: But that faithful displication of index this Supplication to Hearth, and God delay'd got to give them Food ster there fell a great Quantity of Quals in son Canon matthe next Morning it rained Manner than the Barth, which was continued for the same distingtion of the Time the Hebrews, remaind in the Defart. The People were presently incorred them hey benefit the Earth all could give the first the first they were Stranged that they cried out with Andrew Manner Manner than at we the Break they are mattered with the feeten, and appointed them to the Sun-rise, to gather his divine Day was ad-

Time to gather the Manna, which matted away after the Riling of the Sun.
The Jewish, as well as the Christian Interpre-

The Jewish, as well as the Christian Interpreters, to not agree about a great many Things relating to this Manna: They are divided about the Ethnology of the Word Manna; some will have it that it comes from the Hebrew, Man hu, which the Jews pronounc'd when they saw the Earth cover'd with little white Grant or Seeds, which fell during the Night; nevertheless several others, of which Number Buxtor is one, say, that the Word Manna signifies Food had prepar'd, as if he should say, the Food with God had prepar'd for his People. Neither and the sat all better agreed about the Nature of the same that the runging Manna now used in Phylick; that he say a Liquor which falls in the Nature of Day, and which is congeal'd into little Grains, sing cole of Corrant der. Valesus, Physician to the Emperor Charles the Fifth, is of this Opinion. Cornelius à Lapitary upon Exodus, that he had been in Pound little Seeds like Millet, something long and reddish, which fell, during the serene Nights, in June and July, and that they were eaten when boil'd.



boiled, having the same Taste as the Panick. And I have been consismed in this by a Friend of mine, who was a long Time in Poland, especially on the Side of Silesta, where this Dew salls plentifully. And I have also seen on the Heights of Dauphiny, at the Foot of the Mountain of Geneva, about Four o'Clock in the Morning, a large Quantity of this Manna, which I have taken at first Sight for Hail, but after having tasted it, I found, by its sweet sugary Taste, that it was a Dew like that spoke of in the Holy Scriptures; for as soon as the Sun was up, it dissolved.

Those who hold that the Manua with which God fed the Jows in the Defert, was not the fame with that used in Phylick, say, that that which purges must weaken and cannot nourish; but Volfius answers this Difficulty, and fays, that this Manna differ'd not at all in its Nature, but as to Accidents, from that used in Physick; and this Difference arose from the Preparation which the Angels made in fweetning and cleaning this Dew from its Aqueous Parts that the common Manna is loaded with, in order to make it fit for Bread. &c. as that which falls in Poland in the Months of June and July is. Belide which, the constant Use of a Medicine will finder it from having its common Effect. We see Men daily who make their Food out of strong Poisons by a continued Custom and Habit; and Wine shall be highly ferviceable to Persons when sick, who do not drink it at other Times; shall be hurtful to Persons in Illness who make a constant Use of it when well. Valefius does not doubt in the least but that the Manna in the Defert did at first purge the Hebrews, who were replete with gross Humours, which they collected by the Use of Garlick, Leeks and Onions, of which they fed during their Abode in Egypt; and that after they had been duly purged, the Manna became nutritive, especially after having been prepar'd or purified by the Angels; for it is expresly said in Pfalm lxaviii. ver. 23, 24, and 25. God commanded the Clouds above, and opened the Doors of Heaven; he rained down Manna also upon them for to eat, and gave them Food from Heaven: So Man did eat Angels Food. And this Explication appears very agreeable to the Hebrew Word Manna, which fignifies Nourithment, or Food prepar'd; as may be inferr'd from the 31st Verse of the 11th Chapter of Exedus, where it is faid, And the Tafte of Manna was like Wufers made with Honey.

# 2. Of Manna.

Ponet. THAT which we call and sell now by the Name of Manna, is a white crystalline Liquor that flows with-

out Incision, and with Incision from both the wild and domestick Ashes, which the Italians call Frazini and Orni, that grow plentifully in Calabria and Sicily, but chiesty at Galliopoli, about Mount Saint Angelo, and Tolfie, from whence almost all the Manna we now sell is brought.

We sell several Kinds by the Name of Calabrian Manna. The first and best Sort is the Manna of Mount St. Angelo, but that is fatter than the other Kinds, and therefore very little demanded by People who do not understand it: The second is the Sicilian Manna, which is usually white, dry, and teary. The third Sort of Manna is that of Tolse; this is the worst of the three, and is that which is improperly call'd Brianson Manna, which is another Kind, as will be seen hereafter; this is dry, white, and very apt to be full of Dirt.

The Arabians look'd upon Manna to be a Sort of airy Honey, or a Dew that falls from the Heavens: And this was a common receiv'd Opinion for many Ages; but Angelus Sala, and Bartholomaus ab Urbs veteri, two Franciscan Friars, who, in 1545, publish'd Commentaries upon Mesus, were the first that I know of, that in their Writings affirm'd Manna to be truly the concreted Juice of the Ash-Tree, as well the common as of the wild, generally call'd Quickbeam. Danatus Antonius ab alto mari, a Phylician and Philosopher of Naples, who stourish'd about the Year 1685, has also consisted this Opinion by several Observations.

For first, having cover'd Ash-Trees for several Days and Nights together all over close with Sheets, fo that no Dew cou'd possibly come at them; yet he has found Mama upon these Trees fo cover'd, under the Sheets, when at the fume Time not the least Sign or Impression of any Dew or Honey was to be feen upon the upper Part of the Sheets. 2dly, All those who make it their Business to gather Manna, freely own and confess that it drops out again of the same Places of the Trees, from whence it was before taken, and by Degrees coagulates with the Heat of the Sun. 3dly, In the Trunks of the Ash-Trees, little Bladders, or as it were Bliffers, are often obfery'd, or rife near the Bark, which are fill'd with a Liquor of a white Colour, and sweet Taste, which afterwards thickening, is turn'd into a very good Sort of Manna. 4thly, The very fame Liquor flows out of the Bark of the Ash when it is wounded: And it is very observable, that Grafhoppers and other small Insects very often bore through the Bark of this Tree, that they may suck this swe t Tear; and when they have lest it, the Manua sweats out of the small Wounds that they have made. 5thly, Wild Ashes,

he being cut down by Coppers to-make Hoops Vine Velicle, it often happens that no imali mantity of Manna flows out of their Stocks or bughs, being cloven or split lengthways, and emposed to the Heat of the Sun. 6thly, Such as me employed in the making of Charcoal, confidentity affure us, that they have often observ'd Manna sweat out of the Ash-Wood, after it has **been kindled and thrown in the Fire.** 

The fame Author further takes Notice, that the same Trees yield Manna every Year, but not of them indifferently; upon which Account there are a great many that make it their Buli-Trees: Yet there are in these Places Trees of the fame Kind, that afford no Manna. Moreever the same Author tells us, that the Manna zung chiefly out of that Part where the Footstalks of the Leaves are inferted into the Branches; for in these Parts the Vessels being thinner and finer, are the more easily divided; wherefore he does with very good Reason observe, that Manna never drops out of the Leaves of this Tree, unless it is at Noon, or about the hottest Time of the Day; because there is a large Degree of Heat requir'd for the fetching of this Juice out of its proper Vessels, and conveying or translating it unto the distant Leaves. In the Kingdom of Naples and Sicily, Mama naturally flows and drops out of the Leaves of the aforefaid Trees in the Form of a clear Liquor, and afterwards thickens and becomes a little hard; but especially in the Month of Figur, when the Weather is very hot and dry; next Day, with a Knife, they scrape and pick it off the Leaves, lest it should be dissolved and wash'd way by the falling of Rains, or the Moistness and Dampness of Air; then they carefully put it up in Vessels, well glazed; and after that they expose it to the Heat of the Sun, 'till it will not thick nor cleave any more to the Fingers; otherwife it wou'd melt and lose its Whiteness.

Mama flows fpontaneously from the Middle of June to the End of July, unless Rains happen to fall; after the Month of July, the Country People or Pealants make an Incilion into the Bark of the Ash-Tree, even to the Wood, from whence the Liquor of Mama continues to flow and drop, form Noon-Time to Six o'Clock in the Evening incellantly, which afterwards runs together into thick Lumps or Clots, but of a darkish Colour. This spontaneous Manna, by the Italians is call'd Manna Di fronda, upon Account that it drops from the Leaves of the Ash-Tree, like Sweat in the Dog Days or Heat of Summer. But that Sort of concreted Manna, that proceeds from the Birk of those Trees being wounded, is call'd by Stalians Sporfatella and Stoifata, or Manna

This Opinion of Altomarus has been defended by Grapius, Labellius Cafalpinus, Coftous, Cornelius Confentinus, Beccone, and others; who have given more Credit to their-Eyes than to Authority.

Manna is approv'd of when it is fat and a little clear, of a fweet Tafte like Sugar, and biting to the Tongue. Chuse that which is fresh and light, from a white Colour inclining to be a little brown, and when the Clots or Lumps being broken, look as if they were fprinkled with Syrup. That is to be rejected which is dry, and as it were fpungy, without any Manner of biting Tafte; and that is good for nothing that is naufeous, impure and adulterated.

The Calabrian Manna is most esteem'd; but besides that, there is a Sort of it sold in the Shops, call'd the Larch, or Briancon Manna, because it flows from Larch Trees growing nigh Briancon in Dauphing, of this we shall speak in the next Chapter, but it is but little used, because it is much inferior to the Neapelitan Manna. Calabrian Manna purges moderately in the Dose, from one Ounce to two or three; it allays the Acrimony of Humours, and is very useful in bilious Distempers, and others attended with Inflammations, such as Hæmorrhoides, Pleurify, and Peripneumony. It is feldom prescrib'd dry, or by itself, but very often in Potions, &c. As for Example: Take an Ounce or two of this Manna and diffolve it in five or fix Ounces of warm Water, Broth, Whey, or the like; to which add an Ounce of Syrup of Succory with Rhubarb, or Roses purgative, or Violets, for a Dose. When Patients are afflicted with vomiting, or a Disposition to it, take of Calabrian Manna two or three Ounces, Tartar Emetick eight or ten Grains, dissolve them in a Quart of Whey, and let the Patient drink this by Cupfulls, now and then taking a little warm Broth betwixt.

Monsieur Charas and others likewise agree, that the true Manna is not found upon all Plants, Trees, Rocks, and Earths promiseuously, as fome believe, but only upon the ordinary Fraxinus, or Ash-Tree, and upon the Orms, or wild That it is gather'd from the Ash or wild Ash is evident; for that upon some large Tears, the very Print of the Leaf upon which they grow is to be seen, and oftentimes Ash-Tree Leaves are found mix'd with it.

That which comes from the Body of the Ash, and issues voluntarily and freely, as also from the biggest Branches of the Tree, is the purest and fairest, and comes forth in a chrystalline Liquor, beginning to distil in June, forming itself into Tears bigger or lesser, as the Part of the Tree is more or less sull of it; this is gather'd the next

Day after it is distill'd forth, for in that Space of Time it hardens by little and little, and becomes white; this, if it shou'd meet with Rain and Wet, will melt and come to nothing. They take the Bark from it with a thin pointed Knife, putting it into glazed Earthen Pots or Pans, then spreading it upon white Paper, they expose it to the Sun, 'till it ceases to stick to the Fingers, lest it shou'd dissolve by Addition of any superfluous Moisture, and lose its Whiteness: This gathering continues about six Weeks.

The next Kind of Manna is that which is forced, which is drawn forth when the former Manna ceases to flow voluntarily: They wound the Bark of the Trunk to the Wood itself, with sharp instruments, and so from Noon 'till Evening you will see the Manna flow from those Wounds, which is sometimes clotted together at the Bottom of the Tree, like little Sticks of Wax. This they gather the next Day after the wounding, and it is yellower than the former, and therefore not so much esteem'd, being apt to grow brown if kept any Time, yet nothing less purgative.

Thirdly, There is a Manna of the Leaf; this flows voluntarily from the Leaf or Leaves of the Ash, like little Drops of Water, and appears in the Nature of a Sweat upon the nervous Part of the Leaf, during the Heat of the Day, and extends itself all over the Leaf; but the Drops are lugger at the Stalk, than at the End or Point of the Leaf, and harden and become white in the Sun as the former, being something larger than Grains of Wheat. In August the great Leaves of the Ash will be so loaden with these Drops, as if they were cover'd with Snow: This is as purgative as any of the rest.

Manna is an excellent Purge for Children, and others that are of weak Constitutions, and abound with sharp salt Humours; it is temperate, inclining to Heat, mollisies or softens the Throat and Windpipe, opens Obstructions of the Breast, Lung,, and other Bowels, purges watry Humours, and keeps the Belly soluble; being an excellent Thing for such as are apt to be costive. Hossiman says, it ought not to be given crude, but boil'd, not being less slatulent than Cassia, and therefore shou'd not be administer'd without Correctives.

There is a Spirit of Manna, made by Distillation in a Retort. M. Charas's Spirit of Manna is prepar'd thus: Put Manna into a Retort, filling it two Parts in three full, distil in Sand; first, with a gentle Fire, then increasing by Degrees; distil to Dryness, cohobate the Liquor, and repeat the Distillation, so will you have a spirituous Water, containing all the best of the Manna, which is not only an excellent Sudorifick, but a wonderful Specifick against all Sorts of Agues or

intermitting Fevers, giving it at the Reginning of the Fit; Dose two Draws or more in Cardena Water. Schrader's Spirit of Manua is thus made: Dissolve Manua in May Dew, and coholaste 'till it sublimes to the Head of the Alembick, like Snow; so the Mercury of the Manua being brought to the suid Nature of a Spirit, becames a Solutive for Minerals: But this I dare not assistant for a Truth, never having seen at tried.

#### 3. Of Briançon Manna.

THE Manna of Briançan is a white day Manna; but as it is of no Use, and little of it is fold, I shall therefore not dwell long upon this Subject. This Manna flows from the large Branches of the Larix or Larch-Tree, for which Reason it is call'd Manna Luricaa, and it is met with plentifully in the Hills of Dauphiny, especially about Briançan, from whence it takes its Name.

Besides the Briançon Manna, there are other Sorts; the scarcest and most valuable of which is the Mastich Manna, from the Levant, or that of Syria: This is a Manna, which in Colour comes near that of Calabria, and is in Grains like Mastich, whence it was so call'd; this stows from the Cadars of Lebanon.

This Manna is very scarce in France; though I have about three Ounces, which was affirm'd to me to be true, which is of the Colour and Figure already described, of a bitter and unpleafant Taste, which is very different from Fuchfus's Account, who says, the Peasants of Mount Inbanon cat it. This Variety of Tastes probably proceeds from its Age, or the Change of the Climate: The People of Mexico have a Kind of Manna which they eat as we do Bread; and there is a Kind of Manna which the Africans have in constant Use instead of Sugar or Honey.

There is also a Persian Kind in large Lumps; but as none of them ever come to us, it wou'd be but unnecessary to write any Thing more about them.

# 4. Of Liquid Manna.

THE Liquid Manna, or Termiabia, is a white Manna that is glewy like white Honey; it is met with upon certain Plants, garnish'd with Leaves of a whitish green, and befet with reddish Thorns; the Flowers are also reddish, and are followed by Pods like those of the Colutea, or Bladder Sena: It grows plentifully in Persia, and about Alopse and Grand Cairo, whither it is brought in Pots, and sold to the Inhabitants, who use it as we do Calabrian Manna.

This Liquor is very rare in France. In the Year 1683, a Friend of mine, who had been in Turky, made me a Present of about four Ounces, which I keep to this Day; and which was, when given me, according to the Description I have made of it; but as Time destroys all Things, the Colour is chang'd to a grey, and it is become a Syrup of a good Consistence, and of a reddish brown; and that which is most remarkable is, that the Taste is sweet, Sugar-like, and pleasant, and that it is not turn'd sharp.

There is met with, belides, in the Asia major, upon several Trees like the Oak, a Liquid Mama, especially near Ormus, whence it is brought into the Towns in Goat-Skins, where they make so considerable a Trade of it as to transport it to Gen: This Manna is of the same Figure and Colour with the former, but it will

not keep fo long.

Manna is a white or yellowish con-Lanery. crete Juice, which inclines much to the Nature of Sugar or Honey, melting or dissolving easily in Water, of a sweet Honey-taste, and a faint weak Smell; it slows either with Incision or without, in the Nature of a Gum, from the large Branches and Leaves of the Ash-Tree,

both wild and cultivated.

The finest and most pure Manna slows without Incision in June and July, when the Sun is the hottest; it drops in crystalline or fine transparent Toars, almost like Gum Mastich, some larger and some less, according to the Nature of the Soil, and the Trees that it grows upon. In a Day's Time it hardens by the Heat, and grows white, unless it happens to rain that Day, for then it is all spoil'd; they take it from the Place when it is condensed, and dry it in the Sun again, to render it whiter and fitter for Carriage.

The fecond Sort of Manna is taken from the fame Trees in August and September. When the Heat of the Sun begins to decrease, then they make Incisions into the Bark of the Ash-Trees, and there slows a Juice which condenses into Manna, as the first Sort; there runs a greater Quantity than the first, but it is yellower and less pure; they remove it from the Tree and dry it in the Sun. In rainy or dripping Years they make very little Manna from the Trees; because it liquisties and spoils by the Wet, which is the Reason that some Years the Manna is dearer than others.

When Manna is kept it loses much of its Beauty, and does not lose a little of its Virtue. Several People believe that the older it is the more purgative it grows, which I cannot at all understand, and therefore advise you not to use the red or brown decay'd and soft Manna, which

fometimes you meet with at the Druggists, but take the purest you can meet with. It is a gentle Purger, and proper for the Head, from an Ounce to two Ounces. The Word Manna comes from the Hebrew Word Man, which signifies a Kind of Bread, or something to eat; for it has been receiv'd among the Antients, that the Manna was a Dew of the Air, condensed upon certain Calabrian Plants, resembling that which God rained down upon the Israelites in the Desart for Food.

[Manna is the condensated Juice of the Fraxinus retundiors folio. C. B. Pin. 416. Fraxinus Alepansis. Herm. Cat. Lugd. Bat. 261. It

grows plentifully in Calabria and Italy.

Beside what has been already mention'd to prove that Manna is not a Dew, as had been believ'd for many Ages, the greatest Proof of all that is not so, is, that all Dews melt in the Sun, whereas Manna is very well known to dry and harden by its Heat.

The Arabians were the first who discover'd this Medicine; it was unknown to the antient Greeks

and Romans.]

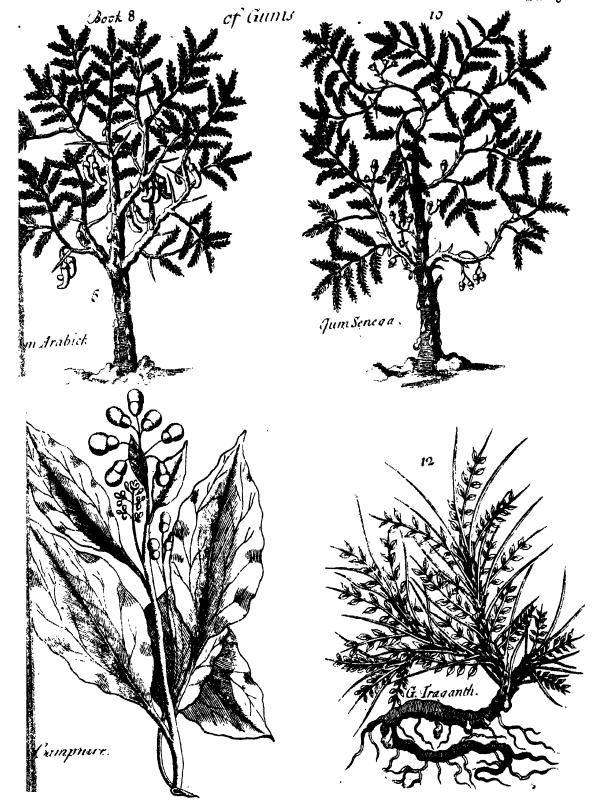
#### 5. Of Gamboge, or Gum Gutta.

LUM Gutta, or Gutta Gamba, Gam-G boge, Gamandra, or the Peruvian Pomet. Gum, is a Gum that flows from the Trunk of a creeping Plant, that is of a particular Nature, it has neither Leaves, nor Flower nor Fruit; and produces nothing but a Quantity of prickly or thorny Branches, which arise one among another, according to the Figure represented in the Plate Or elfe, according to an Account I have receiv'd fince the first Publication of this Work, from a Chinese Tree, call'd by the Indians, Codelumpulli, or Cantopuli, which bears reddish Apples, of a nauseous sour Taste, and without Smell. Gum is gather'd from the wounded Bark of the Tree, and the Indians afterwards dissolve it, and form it into Cakes, as we receive it.

The People of Siam, and the adjacent Countries, cut the thick Trunk of the Plant, from whence proceeds an inspillate milky Juice, of a moderate Considence, which after it is lest some Time in the Air, thickens and grows yellow, and then the People roll it up like Paste, and afterwards make it into Cakes, as we have it brought to us. The Peasants about Odia, or Ondia, the Capital of Siam, bring it to Market to

It is most commonly brought into Europe from Peru and China, and other Places of the East; being of a pure fine Body like Aloes, but of the Colour of the finest Turmerick, being a good yellow, inclining to an Orange-Colour, without

Rubbish.



Gamba ought be chosen a sought Color of the inclining the red, dear and see from kind, and which being shewd, and the Spittle of a yellow colour, and being shewd. The Flame of a Candle is apt to take Fire that for its of crude or unprepared from three Grains to fix or ten; but it will do better in a Magistery, as follows: Take what funtity you please of Gamboge, diffolve it in Spitt of Wine tartariz'd, then pouring Water upon in Powder of a noble yellow Colour will recipitation all to the Bottom: This is given from the to ten Grains by itself, or in an Ounce of Pulp of Cassia for a Bolus. Others dissolve it in Vinegar, or Spirit of Sulphur or Vitriol, and so make an Extract. Gum Gutta is used in the Catholick Extract of Sennertus, in the Cholagogue Extract of Rolfinchius, in the Hydrogick Pills of Bontius, in the Hydrogick Electricy of M. Charas. Lastly, the Pills of Gutta Gamandra of the London Difpensatory, bottom their Names from it.

This was, doubtless, the Gum Monardus used against the Gout it both vomits and purges admirably, carries off watry Humours, and is chiefly used against Droplies, Cachenia's Gouts, Scabs and Itch. Rodinchies thys, a Russices to give this Gume crude, being fixed provider a and sprinkled with spirit or On, of Americal, and so dry'd again. It is an incomparable and beneficial Cathartick for pursons length and starty Humours, and may be given in a Scruple an Substance in Strong Constitutions.

There wellow framme Calour to wash Many and Pictures with, made of this Combage. Put into Water enough to diffelve it, it makes a good Colour for ren'te Panell; if you aid a little Gum Arabick it will be so much the better; being dissolved likesuscript clear. Spring Water, it vields a very bequitted and transfarant yellow, especially with the Adistion of a little Alum to it, which will both brighten and strengthen the Colour.

Gammi Gutta, Cette Coule, Cutta
Gamandra, &c. Samber and Samber an

[Pomet's later Account of this arm was right, for the Tree which produces it, it the Carcapuli. Park. Theat. 1635. Carcapuli Acosta, frustu malo aureo simili. Pluk. Alm. \$1. Coddam-Pulli seu Ota Pulli. Hort. Mal. 3. 41.

There have been various wrong Opinions among Authors about the Origin of this Gum, fome thinking it the Juice of a Kind of Spurge, and others of a Scammony; others also have thought it fictitious, and colour'd with Tigamerick; but it is now certainly known to be the pure and natural Juice of that Tree.

There is indeed another Kind of Gamboge ga-

There is indeed another Kind of Gamboge gather'd from an Indian Plant of the Ejula Kind, and call'd Lonan Cambodia bat the only Gamboge now brought them is the Jules of the Treothere mention'd.

It is remarkable that the finis Gum is se violent a Medicine, the Fruit of the Tree has so sensible Quality, but may be eaten as an Apple or an Orange.

# 61-Of Sum-Arabick.

THE Gum-Acatica. Theban, Babylonish, or the Experior Acatia Gum, Pomet.
which is the Name of the Tree which
produces it, is a waitish, transferent Gum, which
flows from little Trees that are very prickly,
whose Leaves are to small, that it is difficult to
count them; and that grow in the happy Arabia,
from whence it is call d the Arabian Gum. This
is brought to France by the Way of Marseilles:
But fince the Gum Senega has been brought us,
the true Gum Arabick is become so scarce at Paris,
that one can hardly meet with any.

Chuse such as is white, clear, transparent, and the dryest and largest Drops that can be got, especially for the Theriaca. This Gum is used

with good Success for several Informities of the Lungs, and to fosten the Sharpness of Coughs; Gum Senega is often subflituted for it, and several People make it the Basis of what they call the Liquorice Juice of Blois. It is of the Moors that we buy it, who gather it in the Delarts of Lybia, where it runs from the Trees that produce it, as our Cherry and Plumb Tree Gums do from them.

Gummi, Arabicum, Thehaicum, Babylonicum, Achantinum, Saracenicum, is 2 Gum that is brought to us in large Tears, or white Pieces, inclining fometimes towards a yellow, clear, transparent, and glewy in the Mouth, without manifest Taste: It slows by Incision from a thorny Tree, call'd Acacia. This is a noble Tree growing in Egypt, and cultivated in feveral Gardens of Europe, having Sprigs and spreading Roots, and a Trunk rising fix Fathom Height, folid, full of Branches and Boughs, arm'd with strong and stiff Thorns or Prickles; the Leaves are small and fine, growing by Couples on each Side of a Nerve or Rib, that is two Inches long: The Thorns or Prickles are of a bright green Colour, a quarter of an Inch long, and the twelfth Part of an Inch broad; out of whose Wings the Flowers come forth in round Heads, refting upon a Foot-stalk an Inch long; they are of a golden Colour, fingle-leav'd, of a fragrant Smell; and from a small narrow Pipe, enlarging themselves to a wide-mouth'd Cup with five Notches, adorn'd in the middle with a numerous Train of Threads, or fmall Chives, and a Colour inclining to a reddiff, two Inches long, and bending or crooking, after the Manner of a Bow, in whose Cavity are several Partitions, distinguish'd with fungous or spongy Membranes, of a whitish Colour, containing Seeds that are of an oval Figure, flat and hard.

The greatest Part of the Gum we call Arabick, that is in the Druggists Shops, comes not from Arabia, but is only a Gum that is like it in Figure and Property, that is brought from Senega, or rather a Collection of several aqueous Gums, found upon feveral Sorts of Trees, as Plums, Cherries, &c. all which are in some Measure, pectoral, moistening; cooling, agglutinating and Iweetening; proper for Rheums, Inflammations of the Eyes, Loofeness, &c. The true Gum Arabick falls by little and little from the Trees. especially in Time of Rain; and agglutinates or flicks together in large Pieces, that are fine, clear, white and transparent; and this is call'd Gum

Turick that is used by the Silk Dyers.

The true Gum Arabick is the Product of the Acacia vera. Rai. Hist. 1. 976. Acacia vera Egyptiaca Siliquis Simuosis sive Lupini. Breyn. Prode. 2. 2. Acacia felils Scorpiordis Leguminofa. C. B. Pin. 392.

But there is indiscriminately brought over with this, the Gum of the Acacia Indica Farnefiana. Ald. 2. Rai. Hift. 1. 977. Acacia Indica siliqua tumida tuberosa. Breyn. Prod. 2. 2. The Gums of both these Species are much of the same Nature, but they differ something in Form and Colour, that from the true Acacia being in thicker Drops, and something yellowish, and that from the Farnesian flonderer, and perfectly white.

#### 7. Of Turick Gum.

THE Turick, or Turis Gum, is no other than the true Gum-Arabick, fallen from the Trees in a rainy Season and mass'd together; which is brought from Marseilles in great Lumps, that weigh sometimes more than five hundred Weight a-piece, which happens from their close Stowage in the Ships that bring 'em over. Chuse the dry, clean, bright and transparent Gum, and the whitest you can get: This Gum is much used by the Silk Dyers.

#### 8. Of the Vermicular Gum.

THE Vermicular, or Worm-like Gum, is the Gum Arabick or Senega, which falling from the Trees twisted, remains in the Figure or Shape of a Worm, from whence it takes its Name. Chuse the white, clear, and transparent, in little Windings; the dry and true Arabick, especially for the Treacle, which is the principal Intention of it.

# 9. Of English Gum.

THE English Gum is a white Arabick, or Senega, dissolv'd in a little Water, and reduced into the Form of Paste, after having spread it upon a Stone oil'd, of what Thickness they please, and then leaving it to dry a little; that is to fay, to the Confishence of Flanders Glue; after that they cut it as they please, and dry it. This Gum is made to curl Hair, and upon that Account is call'd the curling and English Gum, because the English first made it.

# 10. Of Gum-Senega.

THE Sonega Gum, which we frequently call Gum-Arabick, and which is fold at this Time in our Shops for it, is a Gum which flows from the Trunk and large Branches of Trees, furnish'd with Thorns and very small green Leaves, and

white Flowers, from whence arise round and yellow Fruit resembling Figs. These Trees grow plentifully in several Farts of Africa, in Guinea, Ge. from whence this Gam is brought from Smega by the Blacks, or the white Men, that come from the Mountains, and who earry it on their Back, or on Camels, in Parmiers made of Palm-Leaves, to the French Establishment at Senega, from whence it is sent by the Merchants to several Ports of France.

[The Gum Senica, or Senega, is brought to us in large Pieces; it is a Kind of Gum Arabick, and drops from another Species of the same Tree. The Acacia Siliquis Compressis. Ind. Med. 57. It is much of the Nature of Gum Arabick; and commonly what we buy for Gum Arabick, is this

Gum broken into finall Pieces.]

# 11. Of the Country Gum.

THIS is such as the Peasants bring to Paris, which they gather from their Fruit-Trees, as Plums and Cherries, that come forth from the Trees in the same Manner with the former, and are so much like some of them in Colour, Form, Substance and Nature, that they are not to be known asunder; so that many People believe that they are all but one and the same thing, however they have all one and the same Quality and Operation, and are used to cure Coughs, Colds, Catarrhs, Hoarseness, Shortness of Breath, &c. Chuse it as dry and clean as may be.

[This is bought up by our Druggists, who mix it among what they call their Gum Arabick.]

#### 12. Of Gum-Tragacanth.

Pomet. THIS Gum, which we usually call Pomet. Traganth, or Tragacanth, is a white curled Gum made like little Worms, of an insipid mucilaginous Taste. The Shrub which produces it, is small and prickly, supply'd with very little Leaves of a whitish Green, which the People of Marfeilles call Fox-Beard, or Geat's-Thorn. This Gum flows by the cutting of the Trunk, and the thick Roots of these little Shrubs; they are numerous in Syria, especially about Aleppe.

This Shrub has Roots, according to J. Baubinus, that dive deeply into the Ground, fpriggy, and of a brown Colour, fending forth several Twigs, running and spreading along the Surface of the Earth, in a round Figure or Circle, with coupled Leaves growing upon a Rib, ending in a sharp Thorn or Prickle. They are of a roundish Shape, of a whitish Colour, and soft. The Flowers are papilionaceous, of a whitish Colour.

Inclining to a blue, and running together in round Heads; unto which succeed Cods, that are cover'd with white Hairs, and distinguish'd into two Apartments, in which are contain'd Seeds of the Shape of a Kidney. There is nothing that grows more frequently upon the Sea Coast, about Marfeilles, and upon Harper's Point or Cape, nigh Toulon, than this Thorn. This Gum issues out of the wounded Roots of this Thorn, running together in Lumps of different Sizes, some bigger and some less; some very clean and clear like Ising-Glass; others again looking more black-ish and soul: Both this and Gum-Arabick thicken the Humours, and moisten; but they are chiefly used for the Incorporation of Powders, and are dissolved in Rose-Water, and the like, and a Mucilage extracted thence.

Tragacanthum, or Dragacanthum Gum-Traganth, is a white, shining, Lemery. light Gum, in little long Pieces, slender and curled, or winding, in the Nature of Worms: They get it by Incision from the Root and Trunk of a little Shrub, call'd by the same Name Tragacantha, or Spina Hirci, Goat's-Thorn . It bears feveral hard Branches, cover'd with Wool, and furnish'd with white Thorns, and very small thin Leaves, rang'd in Pairs, and ending in a whitish Thorn. The Flowers grow on the Tops of the Branches, join'd several together; they are leguminous, and like those of the little Broom, but white. After they are gone succeed Pods, divided each into two Partitions, full of Seeds, the Size of that of Mustard, and the Shape of a little Kidney: The Root is long, and stretches wide; it is as thick as one's Finger, white and woody.

[The Shrub which produces this is the Tragacantha vera. Park. 995. Aftragalus Aculeatus fructicosus, Massiliensis Tragacantha Dictus. It is kept in the Gardens of the Curious, and

flowers in June.

The Poterium is another Species of this Shrub. It is the Tragacantha Granatenfis foliis incanis deciduis flore albo. Hift. Ox. 2. 113. Tragacantha altera feu minor Peterion forte Dioscoridis. Park. 996. The Root of this was once esteem'd good in Nervous Cases, but at present is never seen in the Shops, or heard of in Practice.]

#### 13. Of Camphire.

Camphire is a refinous and very combustible Gum, of a penetrating Pomet.

Smell, and easy to dissipate into the Air, because of the Sulphur and volatile Salt, of which it is compos'd. It flows from the Trunk and large Branches of great Trees, that A 2 2

we Leaves like those represented in the Figure served, whose Original is in my Hands, given to ma by Mr. Tournefort: These Trees grow plendfully in the Isle of Bornes, and other Parts of

Asia, and in China.

The Inhabitants of the Places where these Trees grow, cat the Trunks, from whence flows a white Cuen, which is found at the Foot of the Tree in little Cakes, and which is brought into Helland to be rafin'd. This Gum, as it comes from the Tree, and as it comes out of the Country, is call'd Rough Cumphire; which, to have its requisive Quality, ought to be in brittle Pieces; and being broken should be like white Salt, of the Smell mention'd before, the drieft

and least impure that may be.

This rough or unrefin'd Campbirs is formatimes to be met with at Rover and Paris, from whence it is sent to Holland to be refin'd, Mecquie no Body else will take the Pains or Troubles do it but the Hollanders. I wonder what all our Chymists have thought on, that they never yet have inferted into their Books the Manuer and Way of refining Campbirs: Yet nevertheless some believe that the Campbire we fell is just as it is drop'd from the Tree, which is wide of the Truth; fince the rough Camphire, as it comes from the Tree, is in Pieces of different Sizes, and like white Salt that is very dirty; and that we fell is in Cakes made in cover'd Pots, white, clear, and transparent; which lets us understand it has been work'd, and could not come so from the Tree: And for the Satisfaction of the Publick, I will lay down the Manner of refining it, which was never told me by any Person, but as I discocover'd it by Experience, by which I have learn'd

They refine or purify rough Campbire by putting it into a Matrais, or other fubliming Veffel, after it is pounded, and after half the Veffel is fill'd with the Powder, they stop it lightly; then they place it upon a gentle Fire, and presently the more fubtil Parts of the Campbian rife and cling to the Top of the Vessel; and when all is fublimed, they find it fine, white, transparent, and thick, according to the Quality of the unre-fined Campbire that was employ'd. After Sublimation they meet with a Caput Martuum at the Bottom of the Vessel that is of no Value. There adheres to the refin'd Campbire a Campbire that is extreamly white, and all in little Grains, which is likely what would not incorporate as the other. As the rough Camphire therefore is common enough among us, I know no Necessity we lie under, to let it all pass thro' the Hands of the Dutch, to make it either useful for Medicine, or other Purposes; as Fireworks, or the like. As

to its Virtues, Mr. Lemery fays, the Oil is very valuable for the Cune of Fevers, a Piece of Scarlet Cloth which has been dipt into it, being hung about the Meck. This Oil is made by the Affittance of the fit of Nire, that makes it of an Amber Colour; and this is wonderfully recommended in Pains, and where the Bones are carious.

Other Authors are of Opinion, that the Camphire of the Shops, is obtain'd from a Tree that rifes the Height of a Man, furnish'd with a Number of Branches and Boughs, spreading far abroad, and bearing Leaves very thick, and close by one another, not much unlike the Leaves of the common Bay-Tree, bright, smooth, and fornewhat curled and waved about the Edges; of a dark green Colour, a therp aromatick Tafte. and of a strong vehement Smell: None as yet has given a persect Description of the Flowers of this Tree; yet it is certain that a Fruit succeeds to the Flowers coming out of a longith Cup. Within this Fruit is enclosed a round Shell of a blackish Colour, inclining to a brown, not very hard, containing a fourish Kernel, cloven in two, being fat, of a biting aromatick Talle, but not unpalatable. This Tree grows plentifully in the Country of Japan. Campbire is extracted from the Roots of this Tree; they cut the Roots into fmall Pieces, and throwing them into a Brass Kettle, they cover it with a Lad that is broad at the Bottom, and tapering, tharp or narrow at the Top, like the Head of an Alembick, and putting the Kettle over the Fire, that volatile Salt, the Camphire, ascends and cleaves to the Cover or This Camphire, at first, is of a forded whitish Colour, and very foul, but after the Hollanders have refin'd it by the Help of Fire and Glass Vessels, it is so order'd and elaborated, that it becomes transparent.

Some fay that Campbire sometimes flows naturally or spontaneously from these Trees, or else by making deep Incisions into them; but the best Camphire is drawn from the Roots of the Cinnamon-Tree, as others aver: Chuse such as is white, transparent, brittle, dry, of a biting pungent Taffe, and that fmells like Rofeman, but much ftronger: It is a true oleaginous volatile Salt, abounding with Sulphur, whence it easily distolves in Water and Sperit of Wine. This Medicine provokes the Courfes, and affifts wonderfully in Suffocations of the Womb; Belides its Faculty of fubduing Hysterick Distempers, it is also anodyne, procures Sleep, and relifts Putrefaction; upon which Account it is often prescrib'd in malignant Fevers, and after the Use of Emeticks, to refresh and restore the fainting and drooping Spirits. Spirit of Wine camphorated, may be taken in-

wardly